

EPA Registration 5813-114



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 23, 2017

J. Evelyn Lawson
Federal Registration Specialist
Clorox Professional Products Company
c/o PS&RC; P.O. Box 493
Pleasanton, CA 94566-0803

Subject: Notification per PRN 98-10 – Minor Label Changes
Product Name: CLB I
EPA Registration Number: 5813-114
Application Date: January 27, 2017
Decision Number: 526133

Dear Ms. Lawson:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, you may contact Donna Kamarei at (703)347-0443 or via email at Kamarei.donna@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "DF", followed by a horizontal line.

Demson Fuller, Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510P)
Office of Pesticide Programs

CLB I

KEEP OUT OF REACH OF CHILDREN DANGER: CORROSIVE.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. **IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. **IN EITHER CASE, CALL A POISON CONTROL CENTER OR DOCTOR IMMEDIATELY FOR TREATMENT ADVICE.**
See back panel for additional precautionary labeling.

ACTIVE INGREDIENT:

Sodium Hypochlorite 6.05%
OTHER INGREDIENTS:..... 93.95%
TOTAL: 100.00%

(Yields 5.75% available chlorine)

Contains no phosphorus

NET CONTENTS _____

NOTIFICATION

5813-114

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

02/23/2017

PRECAUTIONARY STATEMENTS: Hazards to humans and domestic animals.

DANGER: CORROSIVE.

Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear safety glasses -or- protective eyewear and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet -or- restroom. Avoid breathing vapors and use only in a well ventilated area. [Remove and wash contaminated clothing before reuse.]

[Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.]

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **IF SWALLOWED:** Have person sip a glassful of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

Call a poison control center or doctor immediately for further treatment advice. Have product container or label with you when calling a poison control center or doctor, or going for treatment. Clorox Information Line: 1-800-292-2200.

PHYSICAL OR CHEMICAL HAZARDS: Product contains a strong oxidizer. Always flush drains before and after use. **Do not use or mix with other [household] chemicals**, such as toilet bowl cleaners, rust removers, acids or products containing ammonia. To do so will release hazardous irritating gases. [Prolonged contact with metal may cause pitting or discoloration.]

For containers 5 gallons and greater:

ENVIRONMENTAL HAZARDS: This product is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

For use with 4 to 6 gallon buckets/containers as defined in the ASTM standard; see Child Hazard Drowning Pictogram text below:

NOTICE: CHILDREN CAN FALL INTO BUCKET AND DROWN. KEEP CHILDREN AWAY FROM BUCKET WITH EVEN A SMALL AMOUNT OF WATER.



For containers less than 5 gallons:

ENVIRONMENTAL HAZARDS: This product is toxic to fish, aquatic invertebrates, oysters and shrimp.

(Household/Residential uses; 16 fl oz, 30 fl oz, 64 fl oz, 121 fl oz)

STORAGE AND DISPOSAL: Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. Do not contaminate food or feed by storage, disposal or cleaning of equipment. **PRODUCT DISPOSAL:** Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer. **CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Recycle empty container or discard in trash.

(Professional/Institutional uses - including labels intended for restaurants, medical facilities, daycare facilities; 121 fl oz):

STORAGE AND DISPOSAL: Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Do not contaminate food or feed by storage, disposal or cleaning of equipment. **PRODUCT DISPOSAL:** Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer. **CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. [Triple rinse container (or equivalent) promptly after emptying.] Recycle empty container or discard in trash.

(Professional/Institutional uses -For use with containers greater than 5 gallons):

STORAGE AND DISPOSAL: Do not contaminate food or feed by storage and disposal of this product. **STORAGE:** Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water before discarding this container in trash.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the EPA Regional Office for guidance.

(nonrefillable container)

CONTAINER HANDLING AND DISPOSAL: Nonrefillable container. Do not re-use or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty remaining contents from this container into mix tank. Pressure rinse container thoroughly. Empty rinsate into mix tank for dilution before disposal into sanitary sewer. Repeat pressure rinse procedure two more times. Recycle empty container or discard in trash. Do not contaminate food or feed by storage and disposal of this product.

(refillable container)

CONTAINER HANDLING AND DISPOSAL: Refillable container. Refill container with this product only. Do not reuse this container for any other purpose. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container prior to final disposal, empty remaining contents from this container into mix tank. Pressure rinse container thoroughly. Empty rinsate into mix tank for dilution before disposal into sanitary sewer. Repeat pressure rinse procedure two more times. Recycle empty container or discard in trash. Do not contaminate food or feed by storage and disposal of this product.

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Company Information

Satisfaction Guaranteed

Satisfaction Guaranteed! At Clorox, we have prided ourselves in making consistent quality bleach for [over] 100 years, and we are dedicated to ensuring your total satisfaction with our product. If you are not completely satisfied, please call the number below.

Clorox Customer Assistance (800) 292-2200

Any Questions? The experts at Clorox are standing by to answer any of your laundry or household cleaning questions.

"Clorox" is a registered trademark of The Clorox Company.
Commercial Solutions is a registered trademark of The Clorox Company -or- Clorox Professional Products Company.
Bottle shape is a registered trademark of the Clorox Company.

[Visit -or- Check [out] our website at] www.clorox.com

[for more information] [on Clorox®] -or-

Visit us at www.clorox.com -or- www.cloroxhome.com

For more product ingredient information, visit
www.IngredientsInside.com.

For SDS information, please visit **insert website**.

Questions [?-or- or] Comments? or

Call [Toll Free] (888) 797-7225 -or- (800) 227-1860 -or-

1-800-292-2200 -or- **insert toll free number**.

Write us at:

Clorox Consumer Services

P.O. Box 24305

Oakland, CA 94623

EPA Reg. No. 5813-114

EPA Est. No. 5813-CA-3 (A8), CA-6 (TPP), GA-1 (A4), GA-2 (VG),
IL-12 (VF), MD-2 (E6), TX-1 (A5); 71681-IL-2 (03), IL-2 (24)

Beginning of batch code indicates Est. No.

U.S. Pat. Nos. 8,993,505 and 9,012,389

For Puerto Rico only

EPA Est. No. 5813-PR-1

Mfd. for & © YYYY The Clorox Company

1221 Broadway, Oakland, CA 94612

Made in [the] U.S.A. [of global components -or- ingredients]

For Puerto Rico only

Ave. Chardon, #350, Torre Chardon, Suite 325,] San Juan, PR 00918.

Made in Puerto Rico [of global components -or- ingredients]

Packaging Related Statements and Graphics

Closure Directions for Use:

to be molded into the Child-Resistant Cap

Squeeze -or- Press -or- Pinch -or- Push -or- Depress -or- Grasp -or- Force -or- Pressure -or- Crush [Sides] and -or- & Lift [Up] -or- Pull [Up] -or- Raise [Up] -or- Tilt [Up] -or- Pick Up -or- Elevate

-or-

Push -or- Thrust -or- Drive -or- Ram -or- Move -or- Force and -or- & Twist -or- Wind -or- Coil -or- Curl -or- Twirl -or- Bend -or- Rotate -or- Turn -or- Screw -or- Wrench

- [This product] will not cause damage to -or- is safe for septic and waste water systems [when used as directed.]



See how to use -or- [[Use your phone to] go here -and/or- scan [[the] tag -or- [this] code] to learn -or- get -or- see [more] uses -or- information [on how-to-use [***This Product***]] -or- [how-to] tips -or- [how-to [-use]] videos] -or- Scan here [to learn how to use] -or- [to learn more] -or- [for simple -or- easy instructions]([Data rates may apply])



For carton: Carton made with ___% recycled paperboard, minimum ___% post-consumer. -or- This packaging material contains at least ___% post-consumer recycled paper.

DIRECTIONS FOR USE

[WHERE TO USE: -or- WHERE DO I USE **THIS PRODUCT?**]

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
 [DO NOT use this product full strength for cleaning surfaces. Always dilute strictly in accordance with the directions. For prolonged use, wear gloves.]

[Always refer to manufacturer's care instructions before using on equipment -or- devices.]

All directions may be written in numbered form or in paragraph form.

[Use the Dilution Table to make the desired dilution]. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.]

[This product can be used on hard, nonporous surfaces in commercial -and/or- institutional -and/or- hospital -and/or- household premises (including kitchens -and/or- bathrooms -and/or- nurseries -and/or- sick rooms -and/or- laundry rooms) -and/or- eating establishments -and/or- pet kennels -and/or- veterinary premises.]

This statement only to be used on institutional labels with medical use sites and/or bloodborne pathogens.

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semicritical medical devices prior to sterilization or high level disinfection.

	[Amount [of]] this product -or- bleach	[Amount [of]] water	Instructions
[For] Laundry [Use] [Bleaching -and/or- Brightening -and/or- Whitening -and/or- Stain Removal] -or- [To Bleach -and/or- Brighten -and/or- Whiten -and/or- Remove Stains]			
Bleachable Fabrics	1/2 cup [4 oz] or Max[imum] line -or- level [in dispenser] [1 cup] [8 oz]	Standard [Machine] or HE -or- High Efficiency Machine [Extra Large Washer -or- Heavily Stained -or- Soiled Load]	[1.] Sort laundry by color. [2.] Add detergent. [3.] Fill bleach to max[imum] line -or- level [in dispenser] -and/or- add [1/2 cup -or- measured [amount of]] bleach to [dispenser or] wash water. [Ensure contact with bleach [solution] for 10 min[utes].] [4.] Add clothes [and start wash]. [For best results[, dilute bleach with a quart of water and] add to wash 5 min[utes] after the wash cycle has begun.] Ensure contact with bleach [solution] for 10 min[utes]. [Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors.]
[For] Sanitizing -or- To Sanitize food contact surfaces			
Food contact [Work] Surfaces	2 tsp [1/3 oz]	1 Gal[lon]	Wash, rinse, wipe surface area with bleach solution for [at least] 2 min[utes], let air dry. -or- To sanitize work surfaces, wash, rinse and wipe surface area with a solution of 2 teaspoons of bleach per 1 gallon of water for [at least] 2 min[utes]. Let air dry.
Dishes, Glassware, Utensils	2 tsp [1/3 oz]	1 Gal[lon]	Wash and rinse. [After washing,] soak for [at least] 2 min[utes] in bleach solution, [drain] and [let] air dry. -or- To sanitize dishes, glassware, and utensils, wash and rinse. [After washing,] soak for [at least] 2 min[utes] in a solution of 2 teaspoons of bleach per 1 gallon of water, [drain] and air dry.

	[Amount [of]] this product -or- bleach	[Amount [of]] water	Instructions
[For] Sanitizing -or- To Sanitize food contact surfaces continued			
Plastic Cutting Boards	2 tsp [1/3 oz]	1 Gal[lon]	Wash and rinse. [After washing,] soak for [at least] 2 min[utes] in bleach solution, let air dry.
Baby Bottles	2 tsp [1/3 oz]	1 Gal[lon]	Wash and rinse. [After washing,] soak for [at least] 2 min[utes] in bleach solution, let air dry.
Pet [Food -and/or- Water] Bowls	2 tsp [1/3 oz]	1 Gal[lon]	Wash and rinse. [After washing,] soak for [at least] 2 min[utes] in bleach solution, let air dry.
Refrigerators, Freezers	2 tsp [1/3 oz]	1 Gal[lon]	Remove food [from refrigerator -and/or- freezer]. Wash, rinse, wipe surface area with bleach solution for [at least] 2 min[utes]. Let air dry.
[For] Sanitizing -or- To Sanitize non-food contact surfaces			
Garbage Cans -and/or- Diaper Pails	1/2 cup [4 oz]	3/4 Gal[lon]	After washing and rinsing, brush inside with bleach solution. Let stand for 2 min[utes] before rinsing.
[For] [Laundry, Cleaning and] Sanitizing -or- To [Clean and] Sanitize [Laundry]			
Laundry -or- Bleachable Fabrics	2/3 cup [5.3 oz] 1/3 cup [2.7 oz]	Standard Machine HE -or- High Efficiency Machine	[1.] Sort laundry by color. [2.] Add detergent. [3.] Fill bleach to max[imum] line -or- level [in dispenser] -and/or- add [measured amount of] bleach to [dispenser or] wash water. [4.] Add clothes [and start wash]. [5.] Ensure contact with bleach [solution] for 10 min[utes]. [Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors. [Use [with] a detergent.]]
[For] Disinfecting [& Deodorizing] -or- To Disinfect [& Deodorize] Hard, Nonporous Surfaces			
<i>Insert relevant use site(s) from List 5</i> [To Kill -or- Kills -or- For [99.9% of] [[these] common household germs]:] <i>Insert relevant organisms from List 2A</i> [To [Also] Kill -or- [Also] Kills -or- For [99.9% of] [[these] additional organisms -or- bacteria -and/ or- viruses -and/or- fungi]] -or- For <i>insert relevant organisms from List 2B</i>	1/2 cup [4 oz] 1/2 cup [4 oz]	1 Gal[lon] 3/4 Gal[lon]	[Pre-]wash surface, [mop or] wipe with bleach solution[. Allow solution to contact surface] for [at least] 5 min[utes]. Rinse well and air dry. -or- To disinfect { <i>insert relevant use site(s) from List 5</i> }, pre-wash surface, then mop or wipe with a bleach solution. Allow solution to contact surface for [at least] 5 min[utes]. Rinse well and air dry. <i>Include the following statement if any of the organisms are listed on the label:</i> Canine parvovirus and Feline panleukopenia virus -or- feline parvovirus let stand for -or- contact time is 10 min[utes].
Toilet Bowl	1/2 cup [4 oz]	Toilet Bowl	Flush toilet. Pour this product into bowl. Brush bowl, making sure to get under the rim, let solution stand for 5 min[utes] flush again. -or- To disinfect a toilet bowl, flush the toilet. Pour 1/2 cup of bleach into the bowl. Brush bowl, making sure to get under the rim, let solution stand for 5 min[utes] and flush again.

	[Amount [of]] this product -or- bleach	[Amount [of]] water	Instructions
[For] Mold [Stain] and Mildew [Stain] Removal -or- To Remove Mold and Mildew [Stains]			
Hard, nonporous Surfaces	3/4 cup [6 oz]	1 Gal[lon]	[Pre-]wash surface [and] wipe with bleach solution[. Allow solution to contact surface] for at least 10 min[utes]. Rinse well and air dry.
[For] Deodorizing -or- To Deodorize			
Garbage Cans -and/or- Diaper Pails	1/2 cup [4 oz]	1 Gal[lon]	After washing and rinsing, brush inside with bleach solution. Let drain.
Drains	1/2 cup [4 oz]	—	Flush drains. Pour into drain. Flush with hot water.
[For] Bleaching -and/or- Whitening -or- To Bleach -and/or- Whiten			
Wooden Surfaces	1/2 cup [4 oz]	3/4 Gal[lon]	Apply for [at least] 2 min[utes], rinse [and air dry].
[For] Killing Clostridium difficile* [(C. diff)] [spores]:			
For Killing Clostridium difficile* [(C. diff)] [spores]:	1 part	6 parts	Clean hard, nonporous surfaces by removing gross filth [(loose dirt, debris, blood/bodily fluids, etc.)]. Apply 1:7 solution (~8200 ppm available chlorine) and let stand for 5 min[utes]. Rinse and air dry. Prepare fresh solution daily.
[For] Killing TB -or- To Kill TB -or- To Kill Mycobacterium bovis [(BCG)], (TB)			
[For] Killing TB -or- To Kill TB -or- To Kill Mycobacterium bovis [(BCG)], (TB)	1 part	7 parts	Preclean surface prior to disinfection. Add 1 part bleach to 7 parts water to achieve a 1:8 dilution (7200 ppm available chlorine) before use. Apply 1:8 solution and let stand for 10 min[utes] at room temperature (19° C -or- 66.2°F) -or- (18 to 20° C -or- 64.4°F to 68°F). Rinse and air dry. Prepare fresh solution daily.
[For] Hospital -and/or- Healthcare Use -or- Disinfection: -or- To Kill Pseudomonas aeruginosa:			
	Use 1/2 cup of this product per gal[lon] of water. [Pre]wash surface -or- item, then apply disinfecting -or- bleach solution. Let stand 5 min[utes]. Rinse [thoroughly -or- well] and air dry. -or- Follow Disinfection Directions for use.		

[For additional directions for use, including Service Bulletins, visit www.Insert Website.com]. ***Note to reviewer: only approved language from the most recently approved federal master label will be posted to the website.***

For more tips -and/or- uses, visit www.Insert Website.com ***Note to reviewer: only approved uses from most recently approved federal master label will be posted to the website.***

DILUTION TABLE: PPM (Parts Per Million Available Chlorine).

Degrades with age and exposure to sunlight and heat. Check the level of available chlorine with a test kit.

1/3 oz this product (2 tsp)	+ 1 Gallon Water	= 150 ppm
[(Equivalent performance to 200 ppm [[test] standard] for food contact surface sanitization)]		
4 oz this product (1/2 cup)	+ 1 Gallon Water	= 1800 ppm
4 oz this product (1/2 cup)	+ 3/4 Gallon Water	= 2300 ppm

Laundry Use:

-or- For Laundry: -or- For Bleachable Fabrics:

[For] Standard & HE -or- High Efficiency Machines

[If uncertain about the dye colorfastness, test fabric by applying 1 drop of a solution made of 2 teaspoons of this product plus 1/4 cup water to hidden part of seam. Be sure to check all colors. After 1 min[ute], rinse and blot dry. No color change means the article can be safely bleached.]

[Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors.]

Whitening -and/or- Stain Removal:

[Whitening -and/or- Brightening -and/or- Stain Removal:]		
Dose -or- Load	Standard [Machine]	HE -or- High Efficiency [Machine]
Normal -or- Regular	1/2 cup	Max[imum] line -or- level [in dispenser]
Heavy -or- Heavily Soiled -and/or- Stained	1 cup	Max[imum] line -or- level [in dispenser]

1. Sort laundry by color.
2. Add detergent.
3. Fill bleach to max[imum] line -or- level [in dispenser] -and/or- add [measured [amount of]] bleach to [dispenser or] wash water.
4. Add clothes[, and start wash].

[For best [laundry] results, [dilute measured [amount of] of this product in 1 quart of water.] Add to wash 5 min[utes] after the wash cycle has begun.]

[To handwash, pretreat stains and clean heavy soils, rinse to remove loose soil and fully soak each garment for 5 min[utes] in a solution of 1/4 cup of this product to 1 gallon of cool water. Rinse and perform a regular wash following the laundry use directions.]

[For HE Machines, follow HE machine usage instructions.]

Sanitization:

To sanitize laundry: Add 2/3 cup of this product to a standard washer or 1/3 cup to an HE -or- High Efficiency washer following the laundry use directions.

-or-
 To kill 99.9% of bacteria -or- ***insert organisms from List 1*** in your laundry: Add 2/3 cup of this product to a standard washer or 1/3 cup to an HE -or- High Efficiency washer following the laundry use directions.

-or-
FOR USE WITH *Insert Dispenser Name* APPROVED DISPENSING SYSTEM. Installation and service should only be performed by a *Company Name* Laundry Expert.

To Sanitize Laundry: Add enough of this product to reach 160 ppm (parts per million) available chlorine. [Use the Dilution Table to make the desired dilution]. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Use a detergent. This product used according to the laundry use directions is effective against *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Klebsiella pneumoniae*, and Methicillin Resistant *Staphylococcus aureus* [(MRSA)].

Laundry Use: continued

High Efficiency Washing Machine Maintenance:

[HE] Washing machine manufacturers suggest that you must perform periodic machine maintenance up to once per week, to ensure that your HE washer remains clean and free from any soil build-ups that may cause malodors.

-or-

[HE] [Washing machine] manufacturers suggest [that] a periodic machine maintenance is performed [up to once per week] to prevent [soil build-ups that may cause] malodors. Some HE washers offer a special maintenance [or wash-out -or- clean washer] cycle. Check [the use and care guide] to see if your machine has one. If it does, follow the manufacturer's suggestions.

-or-

If your HE washer has a maintenance [or wash-out -or- clean washer] cycle, follow the manufacturer's recommendations. If your HE washer doesn't have a [-or- an automated] maintenance cycle, you may perform this function manually:

[[Note:] Do not put laundry in the washer.]

1. Select the hot water setting. [If there is no hot water setting, then select a "white" or a "stain" cycle setting.]
2. Select the "extra rinse" option[, if offered].
3. Add this product to the bleach dispenser. Fill to its -or- the maximum level.
4. Run the cycle [through [its] completion].
5. If the HE washer does not have a second rinse option, manually select an additional rinse cycle to ensure that no bleach remains in your -or- the washer.
6. If your -or- the HE washer still has unpleasant odors, [you may need to] repeat steps 1 through 5 [as necessary].

-or-

1. Use hot water.
2. Select "extra rinse" option.
3. Add this product to the bleach dispenser. Fill to its -or- the maximum level.
4. Run the cycle.
5. Follow with extra rinse [to ensure that no bleach remains [in your washer] -or- is left behind].
6. Repeat steps 1-5 [as necessary] [if your [HE] machine still has unpleasant odors].

Household/Commercial/Institutional Use:

[DO NOT USE ON NON-STAINLESS STEEL, ALUMINUM, SILVER OR CHIPPED ENAMEL.]

DO NOT use this product full strength for cleaning surfaces. Always dilute strictly in accordance with the directions. For prolonged use, wear gloves.

For Use on Hard, Nonporous Surfaces -or- ***insert items from List 5: Hard, Nonporous Use Sites***

Disinfection Directions for Use:

[For] Disinfecting:

-or-

To disinfect hard, nonporous surfaces -or- ***insert items from List 5: Hard, Nonporous Use Sites***:

Use 1/2 cup of this product per 1 -or- 3/4 gallon of water. [Pre]wash surface -or- item, then apply disinfecting -or- bleach solution. Let stand 5 min[utes]. Rinse [thoroughly -or- well] and air dry.

-or-

1. [Pre]wash surface -or- item.
2. Mix 1/2 cup this product -or- bleach per 1 -or- 3/4 gallon water.
3. Apply, let stand 5 min.
4. Rinse, [and] air dry.

[For] Toilet Bowls -and/or- bidets:

Flush toilet -and/or- Bidet. Pour 1/2 cup of this product into bowl. Brush entire bowl including rim with a scrub brush or mop. Let stand 5 min[utes] before flushing again.

[For] Potty Seats -or- Trainers:

Empty seat. Fill with 1/2 cup of this product per gallon of water. Let stand 5 min[utes]. Rinse and air dry.

[For] Litter Boxes:

Remove litter. Wash box in soap and water. Fill with 1/2 cup of this product per gallon of water. Let stand 5 min[utes]. Rinse and air dry.

[For Feline Parvovirus or Canine Parvovirus use 1/2 cup of this product per 3/4 gallon of water. Let stand for 10 min[utes].]

[For] Mold and Mildew:

Use 3/4 cup of this product per 1 gallon of water. Wash, wipe, or rinse items with water, then apply disinfecting -or- bleach solution. Let stand 10 min[utes]. Rinse and air dry.

†SPECIAL LABEL INSTRUCTIONS FOR CLEANING PRIOR TO DISINFECTION AGAINST CLOSTRIDIUM DIFFICILE ENDOSPORES

Personal Protection: Wear appropriate barrier protection such as gloves, gowns, masks and eye covering.

Cleaning Procedure: Fecal matter/waste must be thoroughly cleaned from surfaces/objects before disinfection by application with clean cloth, mop, and/or sponge saturated with product intended for disinfection. Cleaning includes vigorous wiping and/or scrubbing, until visible soil is removed. Special attention is needed for high-touch surfaces. Clean the surfaces in patient rooms in an appropriate manner [(for example right to left)], with restrooms cleaned last. Do not reuse soiled cloths. **Infectious Materials Disposal:** Cleaning materials used that may contain feces/wastes must be disposed of immediately in accordance with local regulations for infectious materials disposal.

[FOR] KILLING CLOSTRIDIUM DIFFICILE† [SPORES]:

Add 1 part bleach to 6 parts water to achieve a 1:7 dilution (~8200 ppm available chlorine) before use. Clean hard, nonporous surfaces by removing gross filth [loose dirt, debris, blood/bodily fluids, etc.]. Apply 1:7 solution and let stand for 5 min[utes]. Rinse and air dry. Prepare fresh solution daily. [Avoid contact with surfaces that may be damaged by bleach.] Do not use on non-stainless steel, aluminum, silver, or chipped enamel.

[FOR] KILLING TB -OR- TO KILL TB -OR- TO KILL MYCOBACTERIUM BOVIS [(BCG)], (TB) -OR- TUBERCULOCIDAL EFFICACY:

Preclean surface prior to disinfection. Add 1 part bleach to 7 parts water to achieve a 1:8 dilution (7200 ppm available chlorine) before use. Apply 1:8 solution and let stand for 10 min[utes] at room temperature (19° C -or- 66.2°F) -or- (18 to 20° C -or- 64.4°F to 68°F). Rinse and air dry. Prepare fresh solution daily.

SPECIAL INSTRUCTIONS TO CLEAN AND DECONTAMINATE AGAINST HIV, HBV, AND HCV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS

This product kills HIV-1, HBV, and HCV on precleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings (e.g. hospitals, nursing homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), [Human] Hepatitis B Virus (HBV), and [Human] Hepatitis C Virus (HCV).

Personal Protection: When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, and eye coverings.

Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and other objects before applying this product.

Dilution and Contact time: Prepare a solution of 1/2 cup in 1 gallon of water (at least 1800 ppm available chlorine) and spray or flood surface; let stand 5 min[utes].

Disposal of infectious materials: Use disposable latex gloves, gowns, masks, and eye coverings. Blood and other body fluids must be autoclaved and disposed of according to local regulations for infectious waste disposal.

Sanitization Directions for Use:

[For] Sanitizing:

Food Contact Surfaces:

-or-

To sanitize (*insert item from List 6: Food Contact Sanitization Use Sites*):

Use 2 tsp -or- teaspoons of this product per gallon of water to prepare a 150 ppm available chlorine solution [(equivalent performance to 200 ppm [[test] standard])]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Let stand 2 min[utes]. Air dry.

Surfaces:

-or-

To sanitize (*insert item from List 5: Hard, Nonporous Use Sites*):

Use 1/2 cup of this product per 3/4 gallon of water. Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Let stand 2 min[utes]. Air dry.

Fruit & Vegetable Washing (*commercial use only*):

Thoroughly clean all fruits and vegetables. Mix 1/2 teaspoon of this product in 1 gallon of water to make a sanitizing solution of 25 ppm available chlorine. Submerge fruit or vegetables in this sanitizing solution for 2 min[utes]. [Rinse with water, and air dry.]

Hospital Use:

[For] Hospital -and/or- Healthcare Use -or- Disinfection:

-or-

To Kill *Pseudomonas aeruginosa*:

Use 1/2 cup of this product per 1 gallon of water. [Pre]wash surface -or- item, then apply disinfecting -or- bleach solution. Let stand 5 min[utes]. Rinse [thoroughly -or- well] and air dry. -or- Follow Disinfection Directions for use.

CONSUMER USES HOUSEHOLD [HINTS -or- USES]

Clean Flower Pots and Planters:

Cleaning flower containers helps prevent the transfer of molds and diseases from old plants to new ones. Wash and [thoroughly] rinse pots and planters. Soak 5 min[utes] in a solution of 1/2 cup of this product to 3/4 gallon of water, then rinse.

Cold & Flu: [[To] Prevent the Spread of Cold & Flu Viruses††7 -or- [To] Kill [the] Flu Virus† [on treated Hard, Nonporous Surfaces]:]

This product kills [99.9% of] common household germs to help prevent the spread of germs in high traffic areas and children's items. Disinfect cribs, high chairs, and washable colorfast hard, nonporous toys quickly and easily with this product: Wash, wipe or rinse items with water. -or- Prewash items[.] [then] disinfect with a solution of 1/2 cup of this product per 1 gallon -or- 3/4 gallon of water. Let stand 5 min[utes]. Rinse thoroughly and air dry.

Deodorizing Cat's Litter Box:

Unpleasant cat box odors can be eliminated when this product is used to kill odor-causing germs. Wash litter box with sudsy water and rinse. Then wipe with a solution of 1/2 cup of this product per gallon of water. Let solution stand 5 min[utes] before rinsing thoroughly.

Disinfecting Baby Furniture and Hard, Nonporous Toys -or- Hard, Nonporous Kid's Toys:

Painted and enameled cribs, changing tables and high chairs, plastic mattress covers and bumpers, and washable colorfast hard, nonporous toys are disinfected quickly and easily with this product. Plus, this product kills [99.9% of] common household germs, including those that cause odors. This product leaves baby's room clean and fresh smelling. Disinfect with a solution of 1/2 cup product in 1 gallon -or- 3/4 gallon of water. Let stand 5 min[utes]. Rinse and allow to [air] dry. -or- For washable colorfast hard, nonporous toys, disinfect with a solution of 1/2 cup bleach in 1 gallon -or- 3/4 gallon of water. Let stand 5 min[utes]. Rinse and allow to [air] dry.

Disinfect Pet Areas -and/or- Nonporous Toys -and/or- Accessories

This product can disinfect your pet areas -and/or- nonporous toys -and/or- accessories. Disinfect with a solution of 1/2 cup product in 3/4 gallon of water. [Pre-]wash surface, soak or wipe with bleach solution[. Allow solution to contact surface] for at least 5 min[utes]. Rinse well and air dry. For Feline Parvovirus -and/or- Canine Parvovirus allow solution to contact surface for 10 min[utes].

Eliminating Garbage Can -and/or- Diaper Pail Odors:

This product can deodorize and sanitize your garbage cans -and/or- diaper pail by eliminating the bacteria that cause odors. Wash garbage cans -and/or- diaper pail with soapy water and rinse. Then to deodorize and sanitize, swish a solution of 1/2 cup of this product per 3/4 gallon of water over the inside of the can. Let the solution stand 2 min[utes] before rinsing.

Eliminating Refrigerator Odors:

This product kills odor causing bacteria and leaves your refrigerator smelling fresh and clean. Use it inside and out. Remove food before using this product. Wash surfaces with a solution of 1/2 cup of this product per gallon of water. Let stand 5 min[utes]. Rinse and then air dry interior surfaces a few min[utes] before replacing food.

Keep Christmas Trees Fresher Longer:

To prolong the life of a fresh cut tree, instead of using plain water in the tree stand bowl, use a solution of 2 tsp product per 1/2 gallon hot water, 1 cup corn syrup and 1/8 cup powdered chelated iron (available from local nurseries).

Keep Cut Flowers Fresh Longer:

Fresh cut flowers will stay beautiful longer if you add 1/4 teaspoon of this product to each quart of cold water. This product can also be used to remove flower vase stains and odors. Wash the vase thoroughly and then fill with a solution of 1/2 cup bleach to (1) gallon water. Let stand 5 min[utes] before rinsing.

Keep Wading Pools Sanitary:

As a general rule, use 1/8 cup per 100 gallons of water. For example, an 8-foot diameter pool holding 1 foot of water would require 1/2 cup of this product. To chlorinate, mix required amount of bleach with 2 gallons of water and scatter over surface of empty pool. Fill remainder of pool with water. Empty small pools daily.

Kitchen and Bathroom:

Clean, disinfect and deodorize sinks, countertops, bathtubs, showers, floors, vinyl and glazed tile.

- 1) Wash, wipe or rinse items with water.
- 2) Apply disinfecting solution of 1/2 cup of this product per 1 gallon -or- 3/4 gallon of water.
- 3) Let stand 5 min[utes] before rinsing.
- 4) Rinse thoroughly and air dry.

Removing Exterior Mold Stains:

Mold stains on colorfast exterior surfaces of your home, like siding, tile roofs, sealed brick, stucco and patio stone can be easily removed using this product. First, hose surfaces to remove loose soil. Then apply a solution of 3/4 cup of this product -or- bleach per 1 gallon of water to wet surfaces. Reapply the solution as needed to keep the area wet for 10 min[utes]. Rinse thoroughly to remove residue. [Avoid applying solution in direct sunlight or to unfinished wood.] Rinse quickly and thoroughly if solution comes in contact with aluminum window frames or gutters since metal corrosion may occur.

Removing Mold and Mildew:

[Mold and mildew in the bathroom can be removed easily and effectively using this product.] Simply wipe down surfaces using a solution of 3/4 cup of this product to 1 gallon of warm water. Keep surface wet 10 min[utes]; then rinse thoroughly and wipe dry. Repeat, if necessary, on heavily soiled surfaces.

Removing Patio Moss and Mildew Stains:

Protect nearby plants and grass by watering area thoroughly before and after product use. Patio moss and mildew stains can be unsightly, slippery and dangerous. Hose patio to remove loose debris. Then use this product to remove moss and mildew stains by washing the area with a solution of 3/4 cup of this product to 1 gallon of water. Reapply the solution as needed to keep the area wet for 10 min[utes]. Brush as needed to remove moss and then rinse thoroughly. [Do not use on painted wood.] Avoid excessive runoff near plants.

Sanitize and Remove Stains from Kitchenware:

Tough stains can be removed from china, dinnerware, dishes, plastic and glassware with this product. Plus, this product sanitizes as it cleans. Wash items thoroughly as you normally would. Then soak for 2 min[utes] in a solution of 2 tsp of this product to each gallon of water. Then drain and air dry.

Sanitize Pet's Food and Water Bowls -or- Pet Bowl:

To sanitize pet food containers, wash bowls with detergent and rinse. Fill bowls with a solution of 2 tsp of this product -or- bleach per gallon of water. Let stand 2 min[utes], drain and air dry.

Sanitizing Baby Items:

Baby bottles, nipples and dishes can be easily sanitized using this product. Soak washed items for 2 min[utes] in a solution of 2 tsp of this product per gallon of water. Pour solution through nipples; then drain dry.

Spring Cleaning: [[For] Eliminating Bacteria that Cause Household Odors:]

Sanitize and deodorize common household items, such as sinks, garbage cans, diaper pails and refrigerators by eliminating the bacteria that cause odors.

Sinks:

Wash, wipe or rinse items with water. Apply solution of 1/2 cup of this product per 3/4 gallon of water. Let stand 2 min[utes] before rinsing. Rinse thoroughly and air dry.

Garbage cans -and/or- Diaper pails:

Wash garbage cans -and/or- diaper pails with soapy water and rinse. Swish a solution of 1/2 cup of this product per 3/4 gallon of water over the inside of the can. Let the solution stand 2 min[utes] before rinsing.

Refrigerators:

Remove food before using this product. Wash surfaces with a solution of 2 tsp of this product per gallon of water. Let stand 2 min[utes]. Rinse thoroughly and then air dry interior surfaces a few min[utes] before replacing food.

Toilet Bowls:

Disinfect and deodorize your toilet.

- 1) Flush toilet.
- 2) Pour 1/2 cup of this product into bowl.
- 3) Brush entire bowl, including rim, with a scrub brush or mop.
- 4) Let stand 5 min[utes] before flushing again.

List 1: Laundry Sanitization Organisms	
Bacteria	ATCC and/or Strain
Klebsiella pneumoniae	[ATCC 4352]
Methicillin Resistant Staphylococcus aureus [(MRSA)]	[ATCC 33592]
Pseudomonas aeruginosa	[ATCC 15442]
Staphylococcus aureus [(Staph)]	[ATCC 6538]
List 2A: Hard, Nonporous Surface Disinfection Organisms	
[Organisms for] [1/2 cup per [1] gallon water dilution -or- dosing [organism list]] (5 min[utes] contact time)	
Bacteria	ATCC and/or Strain
Bordetella pertussis	[ATCC 12743]
Campylobacter jejuni	[ATCC 29428]
Carbapenem Resistant Escherichia coli	[CDC 81371]
Enterococcus faecalis	[ATCC 29212]
Escherichia coli O157:H7 [(E. coli)]	[ATCC 35150]
Haemophilus influenzae	[ATCC 10211]
Klebsiella oxytoca	[ATCC 13182]
Legionella pneumophila	[ATCC 33153]
Listeria monocytogenes	[ATCC 19117]
Multi-drug Resistant Enterococcus faecium ^o	[ATCC 51559]
New Delhi Metallo-Beta Lactamase-1 (NDM-1) producing Enterobacter cloacae	[CDC 1000654]
New Delhi Metallo-Beta Lactamase-1 (NDM-1) producing Escherichia coli	[CDC 1001728]
Penicillin resistant Streptococcus pneumoniae	[ATCC 700677]
Proteus mirabilis	[ATCC 9240]
Salmonella enterica [(Salmonella)]	[ATCC 10708]
Serratia marcescens	[ATCC 14756]
Staphylococcus aureus [(Staph)]	[ATCC 6538]
Staphylococcus epidermidis [(Coagulase-negative staphylococci)]	[ATCC 12228]
Streptococcus pyogenes [(Strep)]	[ATCC 19615]
Pseudomonas aeruginosa	[ATCC 15442]
Vibrio cholerae	[ATCC 11623]
Yersinia enterocolitica	[ATCC 23715]

[Organisms for] [1/2 cup per [1] gallon water dilution -or- dosing [organism list]] (5 min[utes] contact time)	
Fungus	ATCC and/or Strain
Trichophyton mentagrophytes [(Athlete's Foot fungus)]	[ATCC 9533]
Viruses Enveloped	ATCC and/or Strain
#2009-H1N1 Influenza A virus [(Novel H1N1)] [(a cause of the flu)]	[Strain A/Mexico/4108/2009 CDC #2009712192]
#Avian Influenza A virus [(H3N2)] [(a cause of the flu)]	[Strain A/Washington/897/80 X A/Mallard/New York/6750/78] [ATCC VR-2072]
#Cytomegalovirus	[Strain AD-169] [ATCC VR-538]
#Hantavirus	[(Prospect Hill virus)]
#Herpes Simplex virus type 1	[ATCC VR-733] [Strain F(1)]
#Human Coronavirus [(a cause of the common cold)]	[Strain 229E] [ATCC VR-740]
†. ##Human Hepatitis B virus (as duck HBV) [(HBV)]	
†. ##Human Hepatitis C Virus (as bovine viral diarrhea virus) [(HCV)]	
†. ##Human Immunodeficiency Virus Type 1 [(HIV-1)]	[(Strain HTLV-IIIB]
#Influenza A virus [Influenza A2] [Flu Virus] [(a cause of the flu)]	[ATCC VR-544, Strain Hong Kong]
#Influenza B virus [(a cause of the flu)]	[Strain B/Hong Kong/5/72] [ATCC VR-823]
#Measles Virus	[ATCC VR-24]
#Newcastle disease virus	[ATCC VR-108] [Strain B1, Hitchner or Blacksburg]
#Parainfluenza virus [(type 3)]	[(Strain C243)] [ATCC VR-93]
#Rubella virus [(German Measles virus)]	[Strain M-33] [ATCC VR-315]
#SARS-associated Coronavirus	[CDC strain 200300592]
#Varicella Zoster Virus	[ATCC VR-1367]
Virus Small Non-enveloped	ATCC and/or Strain
#Rhinovirus type 37 [(a [common] cause of the common cold)]	[ATCC VR-1147, Strain 151-1]

List 2B: Hard, Nonporous Surface Disinfection Organisms [Organisms for] [1/2 cup per 3/4 gallon water dilution -or- dosing [organism list]] (5 min[utes] contact time unless noted)	
Bacteria	ATCC and/or Strain
Acinetobacter baumannii	[ATCC 19606]
Community Acquired Methicillin Resistant Staphylococcus aureus [(CA-MRSA)]	[NARSA NRS123] [(Genotype USA400)]
Escherichia coli O157:H7 [(E. coli)]	[ATCC 35150]
Extended Spectrum Beta Lactamase producing Escherichia coli [(ESBL producing E. coli)]	[ATCC BAA-196]
Legionella pneumophila	[ATCC 33153]
Methicillin resistant Staphylococcus aureus [(MRSA)]	[ATCC 33592]
Pseudomonas aeruginosa	[ATCC 15442]
Salmonella enterica [(Salmonella)]	[ATCC 10708]
Shigella dysenteriae	[ATCC 11835]
Staphylococcus aureus [(Staph)]	[ATCC 6538]
Streptococcus pneumoniae [(Strep)]	[ATCC 6305]
Streptococcus pyogenes [(Strep)]	[ATCC 19615]
Vancomycin Resistant Enterococcus faecalis [(VRE)]	[ATCC 51575]
Yersinia enterocolitica	[ATCC 23715]
Spore-forming Bacterium (1 part bleach + 6 parts water)	ATCC and/or Strain
Clostridium difficile ‡ [(C. diff‡)] spore	[ATCC 43598]
Mycobacterium (1 part bleach + 7 parts water))	ATCC and/or Strain
Mycobacterium bovis [(BCG)] (Tuberculosis -or- TB) ^{†, 1}	
Mold, Mildew, Fungi	ATCC and/or Strain
Aspergillus brasiliensis [(mildew)] ^{‡1} (3/4 cup per 1 gallon water dilution)	[ATCC 16404]
Candida albicans	[ATCC 10231]
Trichophyton mentagrophytes [(Athlete's Foot fungus)]	[ATCC 9533]
Viruses Enveloped	ATCC and/or Strain
‡2009-H1N1 Influenza A virus [(Novel H1N1)] [(a cause of the flu)]	[Strain A/Mexico/4108/2009 CDC #2009712192]
‡Avian Influenza A virus [(H3N2)] [(a cause of the flu)]	[Strain A/Washington/897/80 X A/Mallard/New York/6750/78] [ATCC VR-2072]
‡Cytomegalovirus	[Strain AD-169] [ATCC VR-538]
‡Herpes Simplex virus type 2	[(Strain G)] [ATCC VR-734]
‡Human Coronavirus [(a cause of the common cold)]	[Strain 229E] [ATCC VR-740]
‡, ‡‡Human Hepatitis B virus (as duck HBV) [(HBV)]	
‡, ‡‡Human Hepatitis C Virus (as bovine viral diarrhea virus) [(HCV)]	
‡, ‡‡Human Immunodeficiency Virus Type 1 [(HIV-1)]	[(Strain HTLV-IIIB]
‡Influenza A virus [Influenza A2] [Flu Virus] [(a cause of the flu)]	[ATCC VR-544, Strain Hong Kong]
‡Influenza B virus [(a cause of the flu)]	[Strain B/Hong Kong/5/72] [ATCC VR-823]
‡Measles Virus	[ATCC VR-24]
‡Parainfluenza virus [(type 3)]	[(Strain C243)] [ATCC VR-93]
‡Respiratory Syncytial virus [(RSV)]	[(Strain Long)] [ATCC VR-26]
‡Rubella virus [(German Measles virus)]	[Strain M-33] [ATCC VR-315]
‡Varicella Zoster Virus	[ATCC VR-1367]

[Organisms for] [1/2 cup per 3/4 gallon water dilution -or- dosing [organism list]] (5 min[utes] contact time unless noted)	
Viruses Large Non-Enveloped	ATCC and/or Strain
#Adenovirus [type 2] [(causes colds)]	[Strain Adenoid 6] [ATCC VR-846]
#Rotavirus	[Strain WA]
Viruses Small Non-Enveloped	ATCC and/or Strain
#Canine Parvovirus ¹	[Strain Cornell] [ATCC VR-2017]
#Enterovirus EV-D68	[ATCC VR-561]
#Feline Calicivirus (as surrogate for Norovirus -or- Norwalk Virus)	[ATCC VR-782]
#Feline Parvovirus ¹ (Feline panleukopenia virus)	[ATCC VR-648]
#Hepatitis Type A virus [(HAV)]	[Strain HM-175]
#Murine Norovirus {(as surrogate for Norovirus -or- Norwalk Virus)}	[Strain MNV-1.CW1]
#Poliovirus [type 1]	[Strain Chat] [ATCC VR-1562]
#Rhinovirus type 37 [(a [common] cause of the common cold)]	[ATCC VR-1147, Strain 151-1]
List 3: Food Contact Sanitization Organisms	
2 min[ute] contact time	
Bacteria	ATCC and/or Strain
Yersinia enterocolitica	[ATCC 23715]
Salmonella enterica [serovar Typhi]	[ATCC 6539]
List 4: Non-Food Contact Sanitization Organisms	
10 min[ute] contact time	
Bacteria	ATCC and/or Strain
Klebsiella pneumoniae	[ATCC 4352]
Staphylococcus aureus	[ATCC 6538]

Use Sites and Surfaces:

List 5: Hard, Nonporous Use Surfaces

Kitchen:

Appliances	Latex enamel painted woodwork	Trash cans
Brushes	Lunchboxes	Trash compactors
Cabinet -or- drawer handles	Ovens	Walls
[Ceramic] glazed tile [floors or countertops]	Refrigerator [handles]	Work surfaces
Countertops	Refrigerators	
Faucets	[behind and under] Sinks ^P	
Floors	Solid surface -or- sealed granite countertops	
Freezers	Stoves	
Garbage cans	Stovetops	
Garbage disposals	Thermometers	

Bathroom:

[Bath]tubs	Glazed Porcelain	Sinks
Cat litter boxes	Potty seats -or- trainers	Thermometers
Combs and brushes	Shower curtains	Glazed Tile
Countertops	Shower doors	Toilets [handles]
Faucets	Shower walls	Urinals
Floors	Showers	Vinyl

Baby[']s Nursery -and/or- Items:

Baby Bathtubs	Diaper pails	Painted cribs
Bumpers	Hard, nonporous toys	Plastic mattress covers
Changing tables	High chairs	Playpens
		Restaurant High Chairs

Outdoors:

Barbeque[s] [grills]	Outdoor siding	Sports equipment
Bike -or- bicycle	Plastic patio furniture	Sealed Stucco
Finished woodwork (decks, fences, arbors, trellises, benches, and patio furniture)	Playground sets	Sides of house
Flower pots -and/or- planters	Sealed Brick	Glazed Tile
Golf balls -and/or- clubs	Sealed Driveways, walkways, and sidewalks	Wading -or- kiddy pools
	Sealed Patio stone	

For heavy soil, preclean surface before disinfecting.

Cars:

Dashboard	Door handles	Steering wheel
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Use Sites and Surfaces: continued

List 6: Food Contact Sanitization Use Surfaces:

Baby bottles	Glassware	Sippy cups
Countertops	Plastic [baby] feeding spoons	Stainless cutlery
Dishes	Plastic cutting boards	Stainless utensils
Food Contact Surfaces	Pots and pans	[Travel] mugs
Freezers	Refrigerators	

List 7: Use Sites -or- Locations:

For Use In: -or- This product can be used on hard, nonporous surfaces in ***(Enter insert site(s) or location(s) from List 7)***

Airplanes	Health Clubs	Offices
[All] Around the House ^P	Homes ^P [(including kitchens, -and/or- bathrooms, -and/or- nurseries, -and/or- sick rooms, -and/or- laundry rooms)]	Patient Rooms
Ambulances	Hospital Premises	Pet Kennels
Animal Care Facilities -or- Hospitals	Hospitals	Physicians' -or- Pediatricians' Offices
Animal Husbandry	Hotels -or- Motels -or- Condominiums	Play -or- Common Areas
Attics	Household Premises	Playrooms
Automobiles -or- Cars	Households	Playgrounds
Barbeque -or- Grill Areas	House[hold]s	Pools
Bathrooms	Institutional [establishments -or- premises]	[Public] Restrooms
Cafeterias	Institutions	Public Transportation
Casinos	Kennels	Resorts
Churches	Kitchens	Restaurants
Classrooms	Laboratories	School Buses
Clinics	Laundry	Schools
Closets	Locker Room Facilities	Shelters
Commercial [establishments -or- premises]	[Manicure] [Pedicure] Salons	Shopping Carts
Day Care [Centers]	Meat Processing Plants	Sick Rooms
Dental Offices	Medical Clinics -or- Offices	Spas
Diners	Military Installations	Sports Facilities
Dorms	Movie Theaters	Storage Areas
Eating establishments	Nursing Homes	Stores
Elder Care Center	Nurseries	Timeshares
[Emergency] Waiting Rooms	Office Buildings -or- Places -or- Areas -or- Environments	Toilet Areas
Food Processing Plants/Facilities		Universities
Gyms		Veterinary Offices -or- Premises
		Work places -or- Environments -or- Areas

List 8 Surface Materials

Glass	Linoleum	Sealed brick
Glazed tile	Plastic	Stainless
Latex enamel	Plastic laminate	Vinyl

General/Cleaning/Stain Removal/Deodorizing Claims:

Now[!] -and/or- New[!] -and/&-or- Improved[!] to be used as a claim descriptor only for the first 6 months of product on shelf

- 1/2 cup = 1 load
- 1/2 cup - concentrated
- 2 in 1 solution for cleaning and laundry
- 2-in-1 laundry and cleaning
- 2 -or- 3 value size bottles
- 2 -or- Twin pack
- [3-in-1 clean] [3x clean]: Cleans, whitens and removes stains
- 3x filtered for the purest bleach
- 10x deep cleaning benefits^f
- ~~X~~% more whitening [ingredients]^{*8} -or- **
- [100 year] Anniversary -and/or- vintage [edition]
- [~~X~~-day] -or- [multi-day] stain protection^[t]
- A classic -or- essential cleaner -or- cleaning product
- [A] [AN] [EXCLUSIVE -and/or- PATENTED] Spot-free -and/or- Streak-free [clean] [shine]
- [A] [AN] [EXCLUSIVE -and/or- PATENTED] Streak-free -and/or- Spot-free results
- [A full week] -or [days] of stain protection^[t]
- Add **This Product** to your detergent and get more pristine whites
- Advanced -or- Proprietary whitening technology
- Advanced whitening^{[*8} -or- **]
- All-in-one cleaning and laundry solution
- All you need is [half] -or- [1/2] [of] [a] cup for your laundry needs!
- Anti-Allergen (non-living)
- Beats Other Bleaches in Removing Tough Stains^[t]
- Best whitening, guaranteed [1-800-292-2200] -or- our best bleach ever
- Bleach Works
- Bleaches Out Tough Stains
- Boosts Cold Water Cleaning -or- Washing Power
- Boost Laundry Cleaning Power
- Boosts the performance of your HE -or- High Efficiency machine
- Brighten[s] Laundry [Whites]
- Brightens whites
- Clean-Extend formula^[t]
- Clean laundry begins with a clean machine
- Clean-Less-Often formula^[t]
- Clean more in less time
- Clean Pour
- Cleans [Deodorizes,] [and][,] Whitens [and][,] [Brightens] [and Works in Cold Water]^[!]
- Cleans -and/or- Deodorizes [Around The House]
- Cleanses -and/or- whitens [the clothes]
- Cleans your [HE -or- High Efficiency] washing machine
- Clean[s] White[s]
- Clean[-]up in no time
- Cleaning booster [even] in -or- on cold water washing
- Coats surfaces for easy cleaning
- Cold Water Booster
- Collectible -or- collector's edition [bottle -or- label]
- Commercial -and/or- Institutional Use
- [Compatible] For Use In High Efficiency -or- HE [Washing] Machines
- Complete cleaning -and/or- whitening formula
- Complete coverage, total clean
- Concentrated [cleaning power]
- Concentrated formula -or- whitening power
- Concentrated formula
- Concentrated power to clean -and/or- whiten
- Concentrated **This Product**
- [[Concentrated] **This Product**] gives you the whitest whites in -or- on your energy efficient, cold water loads -or- setting
- [Concentrated **This Product**] is great for cleaning!
- Concentrated whitening -and/or- cleaning formula -or- power
- Concentrated whitening power [in every drop -or- per washload] [in [an] HE washer[s] -or- machine[s]]
- [Covers and] cleans every inch^P
- Covers & cleans - everywhere^P
- Covers more [, -or- to] clean[s] easier^[t]
- Deep clean
- Deep cleans for less cleaning
- Deep powerful cleaning [action]
- Delivers great results in cold water [so that you don't need to wash in warm water, saving you money every year]
- Delivers great results when you use with your machine's cold water setting
- Deodorizer
- Deodorize[s]
- Deodorizing
- [Destroys -or Shields against] [common] surface destroyers^[t]
- Detergent alone is not enough [to get out your toughest stains]
- Doesn't need the extra energy it takes to make the water hot
- Don't forget to run an HE -or- High Efficiency maintenance cycle with **This Product!**
- Dual action cleaning and whitening formula
- Easily wipe away [tough] stains -and/or- soils
- Easy way to get whiter whites
- Easy to handle -and/or- use -and/or- carry -and/or- pour -and/or- store -and/or- control
- Easier way to get whiter whites^{[*8} -or- **]
- Eliminates -or- fights odors
- Eliminates -or- Removes Odors
- [EXCLUSIVE -and/or- PATENTED] Clean rinse technology -or- whitening formula
- Expand the reach of your clean
- Extends the life of your clean^[t]
- Extends time between deep cleans^[t]
- Faster cleanup^[t]
- Faster-Cleanup Formula^[t]
- Fights dinginess better than ever [before]
- For Standard and HE -or- High Efficiency machines
- For Cold Washing
- For A Clean[er], Fresh[er] Household [& -or- and] Laundry
- For [HE] [Front loading] Washing Machines
- [For] [stain-proof -or- stain-resistant] surfaces^[t]
- For odor-free laundry
- For smart surfaces that repel stains
- For [Use in] Standard -and/or- Top Load -and/or- HE -and/or- Front Load [Washing] Machines
- Formulated for baby's white clothes
- Formulated to block surface stains^[t]
- [Free[!]] Measuring Cup[!]

- Free of dyes and perfumes -or- Dye [and perfume][-]free
- Freshens
- Gets Even Your Dirtiest Clothes White
- Great For Cold Water [Cleaning]
- Get whitening -or- stain removal with ease
- Get[s] whites their whitest
- Gives surfaces that like-new look
- Gives you a far-reaching clean
- Gives you the [cleanest] [whitest] whites in standard and HE -or- High Efficiency machines
- Gives your clean long life[^{tt}]
- Goes Where Clean Has Never Gone Before[^{tt}]
- [Great around the home!] [For cleaning and laundry!]
- [Great] for [the] school[s] -and/or- classroom[s] -and/or- work -and/or- [the] office
- Great for use around the home -and/or- workplace -and/or- laundry room
- [Great -or- Perfect -or- Effective] for cleaning up after your pets -or- dog[s] -or- cat[s] -or- puppy -or- kitten
- Great Value
- Guards against stains[^{tt}]
- [Helps] remove **X%** of everyday stains
- Helps surfaces resist stains[^{tt}]
- Helps to maintain your HE machine
- Improved -or- better -or- enhanced whitening [formula][^{*8} -or- **]
- Improved -or- Better -or- Enhanced whitening power [in [a] standard machine[s] -or- washer[s]][^{*8} -or- **]
- In-wash booster
- [It's] Clorox clean
- [Just as] gentle on bleachable fabrics [as before^{*8}]
- Keep a bottle of **This Product** in the kitchen -and/or- the bathroom -and/or- the laundry room -and/or- the garage
- Keeps clothes **X%** whiter and brighter[^{*8} -or- **]
- Keeps clothes brighter[^{*8} -or- **]
- Keeps clothes looking newer longer[^{*8} -or- **]
- Keeps clothes whiter and brighter[^{*8} -or- **]
- Keeps clothes whiter[^{*8} -or- **]
- Keeps clothes whiter longer [to save you money][^{*8} -or- **]
- Keeps on repelling stains[^{tt}]
- Keeps stains from sticking [to surfaces][^{tt}]
- Keeps surfaces looking [new -or- like new -or- their [sparkling] best]
- Keeps whites brighter longer[^{*8} -or- **]
- Keeps your whites beautiful
- Laundry looks -and/or- smells clean
- Limited time [offering]
- Liquid cleaning washing compound
- Locks out -or- repels stains -and/or- Mold Stains -and/or- Soap Scum][^{tt}]
- Locks out stains [to preserve surfaces][^{tt}]
- [Long-lasting -or- Longer] stain protection [for easier cleaning][^{tt}][^{tt}]
- [Long-lasting] stain protection [formula][^{tt}]
- Long Live Clean!
- Made with [new] [innovative] processing technology
- Makes Clean Go Further
- Makes surfaces look -new -or- like new -or- their [sparkling] best
- Makes surfaces stain [resistant -or- proof][^{tt}]
- Make[s] [your] clean [live -or- last] long[^{tt}]
- Makes [your] deep [cleaning -or- clean] last longer[^{tt}]
- [More] Clean up in less time
- [More -or- Better] coverage, easier cleaning[^{tt}]
- [More -or- Better] coverage for a [better -or- easier] clean[^{tt}]
- More Value [Than Before]
- More whitening in every -or- per washload[^{*8}]
- More whitening power [in every drop -or- per washload] [in [an] HE machine[s] -or- washer[s]][^{*8}]
- New Look -or- Presentation
- No lime or acids in this solution
- No splash formula
- No water spotting
- Not for individual resale
- Only [half] -or- [1/2] a cup for your laundry whitening needs!
- Over a century of cleaning expertise
- Patented dual whitening technology
- Patented technology for whitest whites
- Powerful Cleaning Action
- [[Proprietary Whitening Technology] [=] [for]] Whitest Whites
- [Proprietary Whitening Technology [=]] Guaranteed best whitening [1-800-292-2200]
- [Proprietary Whitening Technology] keeps whites their whitest [over time] [, Guaranteed] [1-800-292-2200]
- Protective finish repels -or- locks out [future] stains -and/or- soils -and/or- messes[^{tt}]
- Protects against stains for [a full week] -or- [days][^{tt}]
- Protects against stains for a long [, long] time[^{tt}]
- Protects against stains [for] a long time [for cleanup in no time][^{tt}]
- Protects against [the 5 most] [common] surface destroyers [^{tttt}], [^{tt}]
- Protects against today's stains & tomorrow's[^{tt}]
- Protects -or- Shields [your] surfaces from -or- against grimy buildup[^{tt}]
- [Protects surfaces.] keeps out -or- knocks down grimy build-up[^{tt}]
- Protects surfaces [, stands up to stains] -or- [, locks out stains][^{tt}]
- Protects surfaces from future [soap scum -and/or- mold -and/or- mildew] stains[^{tt}]
- Protect[s] your surfaces [superbly][^{tt}]
- Proudly Made in [The USA] [North America] [The United States]
- [Reduces] [Reduced] water spotting^{*8}
- Quicker Clean-Up Formula[^{tt}]
- Regularly using **This Product** can save you money by helping your clothes last longer from removing stains that would have caused you to discard them
- Removes **X** day old laundry stains
- Removes **X%** more stains^{***}
- [Removes and] prevents stains for a smarter clean[^{tt}]
- Removes and repels stains[^{tt}]
- Removes common Non-living household Allergens
- Remove[s] dirt
- Removes more stains[^{*8} -or- **]
- Removes more stains than other bleaches
- Removes mold stains and mildew stains

- Removes old set-in stains
- Removes stains [and protects surfaces] [against future stains][^{††}]
- Removes stains without scrubbing
- Removes stains without soaking
- Removes today's stains, protects against tomorrow's[^{††}]
- Removes [tough -and/or- hard surface] stains other bleaches [leave behind -or- can't][^{††}]
- Removes [Tough] Stains [better than detergent alone] [and whitens whites]
- Removes Tough Stains Better Than Other Bleaches[^{††}]
- Removes tough stains to get your whitest whites
- Removes [tough] stains to get [your] whitest whites
- Remove[s] what detergent can -or- may leave behind
- Renews whites
- Repels [grease -and/or- grime][^{††}]
- Repels -or- Drives away -or- deflects -or- blocks -or- locks out] stains [^{††}]
- Repels [nasty] surface [attackers -or- destroyers][^{††}]
- Repels stains and cleans up pains[^{††}]
- Repels stains -and/or- soils [with every use][^{††}]
- Repels stains [with ongoing -or- repeated use][^{††}]
- Repels [the 5 most] [common] surface destroyers[^{††††}][^{††}]
- Revives -and/or- renews dingy whites
- Rids -or- Gets Rid of hard to remove stains [better than detergent alone]
- Rids -or- removes the buildup in [HE] or [High Efficiency] machines
- Safe to -or- for use on **insert surface material(s) from List 8**
- Satisfaction Guaranteed [1-800-292-2200]
- Scrub-Less Formula
- Seal[s] in protection [to [help] prevent stains] -or- [[helps] keep[s] stains out] -or- [[helps] prevent[s] stains][^{††}]
- Seals surfaces [against stains -or- to lock out stains -and/or- messes][^{††}]
- Seals surfaces for easy cleaning[^{††}]
- Seals surfaces to keep stains away[^{††}]
- Seals surfaces, stains wash away[^{††}]
- Smart Surfaces for Easier Cleaning[^{††}]
- Sparkling White[s]
- Specially formulated for maximum stability
- [Specially formulated] [so you] [only] use 1/2 cup [for laundry [use] -or- [for whitest whites]]^{†8}
- Speed-Clean Formula
- Super-Surface Protection[^{††}]
- Superb Surface Protection[^{††}]
- Stain dissolving technology -or- dissolves stains
- Stain guard [formula][^{††}]
- [Stain-Proof -or- Stain-Resistant] formula[^{††}]
- Stain protection that lasts [and lasts][^{††}]
- Stain-removing power
- Stain seal[^{††}]
- The bleach brand used by 30 -or- thirty million moms [for 4 [four] generations] [for [over] 100 -or- one hundred years] [since 1913]
- The concentrated cleaning power still gets whites their whitest
- The confidence of a Clorox clean
- [The] cleaning -and/or- whitening power you want [when you need it]
- [The] household essential
- The Original [All -or- Multi Purpose] Cleaner
- [The] smart[er] way to clean -or- do laundry
- The stain remover for whites
- The white line is the Clorox line
- [**This Product,**] a clean you can smell
- [**This Product,**] an essential household item
- [**This Product]** doesn't need hot water to work
- [**This Product,**] essential for your disaster preparedness box -or- checklist
- **This Product** Gets Even Your Dirtiest Clothes White
- [**This Product]** gives you tough stain removal and easy whitening
- [**This Product]** gives you whitening with ease -or- pouring with ease -or- controlled whitening -or- whitening without effort
- [**This Product]** has [an] advanced cleaning -and/or- whitening technology -or- formula -or- ingredients [that is not available in detergent]
- [**This product is]** concentrated for tough stain removal and is easy to pour
- [**This Product is]** concentrated with a high performance -or- precision formula [in [an] HE washer[s] -or- machine[s]]
- [**This Product,**] keep a bottle in the kitchen -and/or- bathroom -and/or- laundry room -and/or- garage
- [**This Product]** lets you use cold water which requires no extra energy
- [**This Product]** makes cleaning easy
- [**This Product has]** concentrated whitening power [in an easy-to-handle bottle]
- [**This Product,**] useful in so many ways
- **This Product** whitens better than ever before [in [an] HE machine[s] or washer[s]]^{†8}
- Throwback -or- retro [bottle -or- label -or- package]
- Tough stain fighting power
- Uncommon protection against [the 5 most] common surface destroyers [^{††††}] [^{††}]
- Use **This Product** and save money—it cleans your clothes and your [HE -or- High Efficiency] laundry machine at the same time
- Use **This Product** and see the difference [in -or- on your clothes -or- whites -or- stains][^{†8} -or- ^{††}]
- Use **This product** and see the difference [in -or- on your clothes -or- whites -or- stains] [in [an] HE washer[s] -or- machine[s]][^{†8} -or- ^{††}]
- Use **This Product** for a clean made easy
- Use **This Product** for a Clorox clean
- Use **This Product** for whitest whites
- Use **This Product** -or- Clorox Bleach for pristine whites
- Use **This Product** regularly to help prevent stains from building up -or- getting worse
- [Use] **This Product** [to] [effectively] remove[s] [juice] [berries] [ketchup] [mud] [dirt] [grass] [coffee] [red wine] [spaghetti] [mustard] [tea] stains!
- Using **This Product** with the leading detergent [whitens] -or- [cleans] better in cold water than just using the leading detergent alone in warm water
- [Value] [Size] [2 -or- 3 -or- 4] Pack
- [Versatile] Multi-purpose cleaner
- [Visit -or- Check [out] our website at] www.clorox.com [for more information] [on Clorox®]
- Washing Machine Cleaner

- [Week-Long] -or- [multi-day] Stain Protection[~~tt~~]
- White [Brite] [Bright]
- Whitens and brightens
- Whitens -and/or- removes stains even on cold water [washing]
- Whitens better than detergent alone [and is easy to pour]
- Whitens [Bleachable Fabrics]
- Whitens [whites] [and removes stains]
- Whitens whites by removing [tough] stains
- Whitest Whites
- Whitest Whites [Technology]
- [With] ACTEON™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] ACTEON™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] ACTIVE PEC™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] ACTIVE PEC™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] ADVANCED CLEAN POLYMERS™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] ADVANCED CLEAN POLYMERS™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] ADVANCED PROTECTION POLYMERS™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] ADVANCED PROTECTION POLYMERS™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] BRILLIUM™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] BRILLIUM™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] CLOROMAX™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] CLOROMAX™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] DUALACTION POLYMERS™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] DUALACTION POLYMERS™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] FACTOR 3™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] FACTOR 3™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- With [hard surface] Stain [Repeller -or- Repellant][~~tt~~]
- [With] MIRACEL™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] MIRACEL™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] MIRATEC™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] MIRATEC™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] OPTISHIELD™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] OPTISHIELD™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] patented whitening [formula -or- technology]

- [With] POLYFEND™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] POLYFEND™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] PROGARD™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] PROGARD™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] PROLON™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] PROLON™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- With stain-away sealer^[11]
- With stain rejector^[11]
- With stain sentry^[11]
- With surface sealer^[11]
- [With] VIBREN™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- [With] VIBREN™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- Works better with detergents for long-term whitening*8
- Works [Even] In Cold Water!
- Works in your maintenance cycle [too]
- Works on ~~X~~% of everyday stains

Sanitizing/Disinfecting:

Now[!] -and/or- New[!] -and/&/or- Improved[!] to be used as a claim descriptor only for the first 6 months of product on shelf

- 1/2 cup kills [99.9% of] [common] [household] germs^{††} or [‡]
- 3-in-1: Cleans, whitens, and disinfects
- 5-in-1: cleans, disinfects, whitens, brightens [and] removes odors
- [64 oz bottle] Makes 16 gallons of disinfecting solution **this claim to be used only for 64 oz bottle**
- [121 oz bottle] Makes 30 gallons of disinfecting solution **this claim to be used only for 121 oz bottle**
- A few surprising uses of bleach -or- **This Product**. Disinfecting [pet] toys -and/or- Sanitizing baby bottles -and/or- sippy cups -and/or- plastic cutting boards -and/or- travel mugs -and/or- pet bowls.
- A germicide & disinfectant
- Antibacterial
- Antibacterial produce rinse -or- soak -or- wash
- Antifungal
- Bactericide
- Bactericidal
- Can be used as a produce -or- vegetable -or- fruit rinse -or- soak -or- wash **commercial use only**
- Can be used to disinfect your pet's accessories and nonporous toys
- Can be used to sanitize -and/or- clean your baby's laundry -and/or- clothes -and/or- cloth diapers
- Clean. Disinfect. Protect.^{†††}
- Clean[ing][s] -and/or- disinfect[ing][s] -and/or- protect[ing][s] [the] [your] **insert site(s)/ location(s) from List 7** [area] [environment] against -or- from -or- by killing [99.9% of] [household] germs^{§§} -and/or- bacteria -and/or- viruses[‡]
- Clean[s] away -or- out and [Kill[s]] [Eliminate[s]] [Destroy[s]] [Remove[s]] [Wipe[s] away -or- out] [Attack[s]] [Get[s] rid of] [99.9% of] [the] bacteria -and/or- germs^{§§} -and/or- viruses[‡] [commonly found in **insert site(s)/location(s) from List 7** [areas] [environments]]
- Cleans and Disinfects
- Disinfect -and/or- Deodorize -and/or- Kill [99.9% of] Germs^{§§} on -or- in **insert surface(s) or site(s) from list 5 or 7**
- Disinfect for a Clorox® [bleach] clean
- Disinfectant
- Disinfecting
- Disinfect[s] -and/or- kill[s] [99.9% of] germs with only 1/2 cup
- Disinfects -and/or- Sanitizes -and/or- Deodorizes -and/or- Eliminates Odors -and/or- cleans [around the house^P]
- [Disinfects -and/or- Sanitizes] [, Eliminates Mildew] And Deodorizes
- Disinfects **insert site(s)/location(s) from List 7**
- Disinfects hard, nonporous surfaces against **insert organism(s) from List 2A or 2B, with correct corresponding dilution in Directions For Use**
- Disinfects pet areas, accessories and nonporous toys [including kennels -and/or- litter boxes -and/or- floors]
- Disinfects [potable] drinking water [in emergency situations]
- Disinfects in your home -and/or- kitchen -and/or- bathroom -and/or- garage -and/or- sink -and/or- tub -and/or- toilet
- Eliminates germs -and/or- bacteria
- Eliminates odor causing bacteria and prevents the build-up of odors in your [HE] laundry machine
- Eliminates Odors, Whitens and Disinfects
- Fight[s] -and/or- kill[s] -and/or- effective against Avian influenza virus [on environmental -and/or- hard, nonporous surfaces]
- [Fight[s]] [Kill[s]] [Effective] [Protect[s]] [against] **insert organism(s) from List 2A or 2B, with correct corresponding dilution in Directions For Use**
- Fight[s] -or- Stop[s] -or- Kill[s] -or- Eliminate[s] -or- Destroy[s] -or- Remove[s] -or- Wipe[s] away -or- out -or- Attack[s] -or- Get[s] rid of [99.9% of] [the] germs^{§§} -and/or- bacteria -and/or- mold -and/or- viruses[‡] [that [can] cause [the] [common] cold -and/or- flu] [in your **insert site(s)/location(s) from List 7** [area] [environment]]
- For institutional use
- Fungicidal -or- Fungicide
- Germicidal -or- Germicide
- Gets Rid Of Germs^{§§} -and/or- Dirt
- Help prevent the spread of [the] cold and flu viruses^{††7} [in your home -or- office] on treated surfaces
- [Helps] Eliminate[s] -or- Reduce[s] odor [causing bacteria] [from your [HE] machine]
- [Helps] Prevent[s] [the] build-up of odor-causing bacteria [in your machine]
- Hospital Disinfectant
- Inexpensive and effective business place disinfectant
- It's amazing what you can use **This Product** for: disinfecting toys -and/or- sanitizing baby bottles -and/or- sippy cups -and/or- plastic cutting boards -and/or- travel mugs -and/or- pet bowls
- Kill[s] [99.9% of] bacteria on the surfaces you[r kids] touch every day
- Kills [99.9% of] [common household] germs^{§§} -or- bacteria
- Kills [99.9% of] flu virus[‡]
- Kills 99.9% of [common household] germs -or- bacteria -or- cold and flu viruses^{††7} in 5 min[utes] **This claim is only to be used on labels with organisms/use instructions with a 5 min[ute] contact time. Not to be used for labels listing Canine Parvovirus, Feline Parvovirus -or- feline panleukopenia virus, or Mycobacterium bovis since these organisms have a 10 min[ute] contact time.**
- Kills [99.9% of] germs^{§§} commonly found in public or commercial facilities
- Kills 99.9% of germs in your laundry⁴
- Kills [99.9% of] [household] mold [and mildew]
- Kills [99.9% of] [household] viruses that cause colds and the flu: Rhinovirus and Influenza A virus
- Kills 99.9% of Klebsiella pneumoniae
- Kills 99.9% of **insert organism(s) from List 1** in your laundry
- Kills [99.9% of] **insert organism(s) from List 2A or 2B, with correct corresponding dilution in Directions For Use** [on **insert surface from List 5**] [in **insert site(s)/location(s) from List 7**]
- Kills 99.9% of **insert organism(s) from list 3 or 4**
- Kills [99.9% of] [many] germs^{§§} -and/or- bacteria^P [around your home]
- Kills [99.9% of] surface germs^{§§} and bacteria^{¥¥}
- Kills 99.9% of Staphylococcus aureus [in 2 min[utes]]
- Kills [99.9% of] [the] cold -and/or- flu virus[es]^{††7}
- Kills [99.9% of] [the] germs^{§§} around your home -or- house
- Kills [99.999% of] Clostridium difficile[¥] (C. diff) spores

RC206030

- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] [the] bacteria -and/or- germs[§§] - and/or- virus[es] [commonly] found in -or- on [the] **insert surface(s)/site(s) from List 5 or List 7**
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] [the] cold virus††† -and/or- flu virus† -and/or- cold and flu virus[es]††† [commonly] found in -or- on [the] **insert surface(s) or site(s) from List 5 or List 7**
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] [the] bacteria - and/or- germs[§§] - and/or- virus[es]† [commonly] found in -or- on [the] **insert surface(s) or site(s) from List 5 or List 7**
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] [the] **insert organism(s) from list 2A or 2B, with correct corresponding dilution in Directions For Use** [commonly] found in -or- on [the] **insert surface(s) or site(s) from List 5 or List 7**
- Kills Aspergillus brasiliensis [(mildew)] [in 10 min[utes]]
- Kills bacteria on hard, nonporous surfaces
- Kills Canine Parvovirus [in 10 [min]utes]
- Kills Clostridium difficile[¶] (C. diff) spores
- Kills Enterovirus EV-D68 [in 5 min[utes]]
- Kills Extended Spectrum Beta Lactamase producing Escherichia coli [(ESBL producing E. coli)] [in 5 min[utes]] -or- Kills ESBL producing E. coli [in 5 min[utes]]§§§
- Kills Feline Parvovirus [in 10 min[utes]]
- Kills Germs[§§] and Removes Odors
- Kills **insert organism(s) from list 1** [in your laundry]
- Kills **insert organism(s) from list 2A or 2B, with correct corresponding dilution in Directions For Use with a 5 min[ute] contact time** [in 5 [min]utes]
- Kills **insert organism(s) from list 3** [in 2 [min]utes]
- Kills Mycobacterium bovis [TB] [in 10 [min]utes]
- Kills Methicillin resistant Staphylococcus aureus [(MRSA)] [in 5 min[utes]]
- Kills Mycobacterium bovis [(BCG)], [(TB)] [(Tuberculosis)]
- Kills -or- removes mold [and mildew]
- Kills Pseudomonas aeruginosa [in 5 [min]utes]
- Kills viruses†, disinfects[,] [&] [and] deodorizes
- Kills viruses that [can] cause colds and the flu such as Rhinovirus and Influenza A virus
- Mildewcide
- Mildewcidal
- Pseudomonacidal⁵
- Reduces exposure to Clostridium difficile[¶] [(C. diff)] -or- C. difficile[¶] -or- C. diff[¶] from treated surfaces **institutional use only**
- Reduces exposure to Methicillin resistant Staphylococcus aureus [(MRSA)] from treated surfaces. **institutional use only**
- [Removing] [Killing] [Fighting] [Eliminating] [99.9% of] germs[§§] -and/or- bacteria -and/or- viruses† [since 1913] [for [more than] 100 years]
- Remove[s] bacteria from your children's hard, nonporous toys
- Removes stains and mildew
- Sanitizer
- Sanitizes [and removes stains]
- Sanitizes [every load] [of your] laundry
- Sanitizes garbage -or- trash cans
- Sanitizes hard, nonporous [food contact] surfaces against **insert organism(s) from List 3**
- Sanitizes hard, nonporous [non-food contact] surfaces against **insert organism(s) from List 4**
- ~~Sanitizes hard, nonporous surfaces against **insert organism(s) from List 3 or 4**~~
- Sanitizes laundry against **insert organism(s) from List 1**
- Sanitizes your baby's -or- workout clothes -or- laundry
- Sanitize your home -and/or- kitchen -and/or- bathroom -and/or- garage -and/or- sink -and/or- tub -and/or- toilet exterior **use instructions will be included for all use site(s) selected**
- Sanitizes hard, nonporous surfaces against **insert organisms from list 4**
- Sanitizes hard, nonporous food contact surfaces against **insert organisms from List 3**
- Sanitizes [your] laundry and disinfects [your] home
- Sanitizing
- Streptocidal²
- Staphylocidal³
- To Kill -or- Kills Staph (Staphylococcus aureus) -and/ or- Salmonella (Salmonella enterica) -and/or- Pseudomonas aeruginosa -and/or- Cold & Flu Viruses (Rhinovirus type 37 & Influenza A virus) -and/or- Trichophyton mentagrophytes [(Athlete's Foot)] **Text in parentheses must be included. Only brackets indicate optional text.**
- The solution for your business' [disinfecting] -and/or- [cleaning] needs
- [This holiday season,] don't forget to disinfect -or- clean your **insert surface from List 5** [with a solution of bleach]
- [This holiday season,] don't forget to sanitize -or- clean your **insert surface from List 5 or List 6** [with a solution of bleach]
- [**This Product**] meets AOAC [Use-Dilution test] efficacy standards [for hospital disinfectants].
- [**This Product**] Removes the dirt -and/or- stains you see and the germs[§§] you don't see
- [**This Product**] Useful in so many ways: Disinfect [pet] toys -and/or- Sanitize baby bottles -and/or- sippy cups -and/or- plastic cutting boards -and/or- travel mugs -and/or- pet bowls
- [**This Product**] Whiten[s]. -and/or- Remove[s] Stains. -and/or- Clean[s]. -and/or- Disinfect[s].
- Use 1/2 cup bleach in 1 gallon of water to kill [99.9% of] these [common] [household] germs: **insert organisms from list 2A**
- Use 1/2 cup bleach in 3/4 gallon of water to kill [99.9% of] these [additional] viruses & bacteria: **insert organisms from list 2B**
- Virucidal† -or- Virucide†
- Whitening -and/or- cleaning -and/or- disinfecting made easy
- Whitens, Deodorizes, and Disinfects

Emerging Viral Pathogen Claims

Allowable and subject to the terms described in Agency guidance dated August 19, 2016, "Guidance to Registrants: Process for Making Claims Against Emerging Viral Pathogens not on EPA-Registered Disinfectant Labels."

This product qualifies for emerging pathogen claims against:

- Enveloped viruses
- Large non-enveloped viruses
- Small non-enveloped viruses

This product has demonstrated effectiveness against viruses similar to ***insert name of emerging virus*** on hard, nonporous surfaces. Therefore, ***this product*** can be used against ***insert name of emerging virus*** when used in accordance with the directions for use against ***insert name of supporting virus(es)*** on hard, nonporous surfaces. Refer to the ***insert CDC -or- OIE*** website at ***insert pathogen-specific website address*** for additional information.

Insert name of illness/outbreak is caused by ***insert name of emerging virus***. ***This product*** kills similar viruses and therefore can be used against ***insert name of emerging virus*** when used in accordance with the directions for use against ***insert name of supporting virus(es)*** on hard, nonporous surfaces. Refer to the ***insert CDC -or- OIE*** website at ***insert pathogen-specific website address*** for additional information.

Packaging Claims

Now[!] -and/or- New[!] -and/&/or- Improved[!] to be used as a claim descriptor only for the first 6 months of product on shelf

- Bottle designed to pour bleach easily
- Bottle [designed to] improve[s] [your] bleach experience [in HE -or- High Efficiency machines]
- [Bottle is] easy to pour in your [HE -or- High Efficiency] machine
- Bottle is specially designed with your comfort -or- experience in mind
- Easy to use!
- Easy [-] to [-] handle [bottle]
- [Flip top] cap -or- closure [specially] designed for simple and secure closure -or- seal
- Lightweight bottle!
- Pour [**This Product**] with confidence
- Smooth flow goes straight into the machine -or- gets bleach where you want it
- Specially designed [bottle -and/or- closure] for an easy -and/or- accurate pour
- Specially designed [bottle -and/or- handle] to [help [you]] get bleach where you want it [with confidence]
- Specially designed [bottle -or- closure] for a comfortable -and/or- controlled -and/or- balanced pour -and/or- experience
- Specially designed [bottle] -or- [closure] allows you to use bleach right
- Specially designed bottle -and/or- handle [helps] control[s] the flow of bleach
- Specially designed bottle -and/or- closure controls the pour
- Specially designed bottle -and/or- closure helps prevent splashing
- The **This Product** bottle even has a spot for your thumb!
- [The **This Product** bottle is] designed for comfortable pouring -and/or- handling
- [[The] **This Product** bottle is] designed for easy bleach dispensing
- [The **This Product** bottle is] designed to handle the strength of bleach
- [The **This Product** bottle is] designed to mold to -and/or- easily fit in your hand
- [This bottle] [is] [Designed to] Help[s] Prevent[s] spilling -and/or- splashing
- [**This Product** has a] technically advanced bottle developed for [smooth -and/or- nearly effortless] pouring
- [**This Product** was] designed with your comfort in mind
- [**This product**] [you can] pour with confidence
- [**This product's** new sleek design is] made for modern -or- today's [generation of] -or- HE -or- High Efficiency washing machines
- Thumbprint for easy handling -and/or- pour -or- pouring
- [With] Easy [-] [to] [-] Grip [Handle][!]

Cross-promotion Claims

Now[!] -and/or- New[!] -and/&/or- Improved[!] to be used as a claim descriptor only for the first 6 months of product on shelf

- For colors, use/try Clorox2 Stain Fighter & Color Booster. It removes the toughest [outdoor] stains better than detergent alone!
- Try Clorox2 Stain Fighter & Color Booster, a color-safe way to lose the stains, not the fun!
- Try Clorox2 Stain Fighter & Color Booster in your colored loads (it's bleach-free/ chlorine-free!). Lose the stains, not the fun!
- Try Clorox2 Stain Fighter & Color Booster. It's bleach-free/chlorine-free and safe on colors!
- Try Clorox2 Stain Fighter & Color Booster. Lose the stains, keep the colors, guaranteed. Learn more at Dare2BeColorful.com
- Try Clorox2 Stain Fighter & Color Booster. Removes stains and brightens colors! Learn more at www.clorox.com
- Try Clorox2® Stain Fighter & Color Booster to remove the toughest [outdoor] stains better than detergent alone.
- Try Clorox 2® Stain Remover & Color Booster
- Try Smart Seek™ Bleach for whites [and mostly whites].



SERVICE BULLETINS

[For additional directions for use, including Service Bulletins, visit www.clorox.com/bleachuse.]

Note to reviewer: only approved language from the most recently approved federal master label will be posted to the website.

CLB I (EPA Reg. No. 5813-114)

FOR CONTROLLING THE SPREAD OF *PHYTOPHTHORA RAMORUM* [CAUSE OF SUDDEN OAK DEATH] IN FORESTS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

When used as directed, this product is effective in controlling the spread of the invasive pathogen *Phytophthora ramorum* in forests. *P. ramorum* causes a fatal canker disease of several tree species and damages many other plant species.

Water is commonly drafted from streams and fire ponds within forested areas to use in dust abatement on forest roads, equipment cleaning and fire suppression. The use of infested water sources can spread *P. ramorum* to uninfested areas. Treating water prior to use helps control the spread of this pathogen.

Directions for Use: Add 1 gallon of this product to 1000 gallons (~50 ppm available chlorine) of drafted water. Prepare the mixture at least 5 min[utes] prior to application for dust abatement, fire suppression, and cleaning vehicles and logging, road building, and maintenance equipment.

CLB I (EPA Reg. No. 5813-114)

FOR PORT ORFORD CEDAR ROOT DISEASE (*PHYTOPHTHORA LATERALIS*) TREATMENT USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

When used as directed, this product is effective in controlling the spread of the fatal fungus *Phytophthora lateralis* [Port Orford Cedar Root Disease] in areas of California and Oregon where Port Orford Cedar (*Chamaecyparis lawsoniana*) grows.

Water is commonly drafted from streams and fire ponds within forested areas to use in dust abatement on forest roads, equipment cleaning and fire suppression. The water source can spread the root disease fungus to uninfested areas. Treating water prior to use helps control the spread of the fungus.

Directions for Use: Add 1 gallon this product to 1000 gallons (~50 ppm available chlorine) of drafted water. Prepare the mixture at least 5 min[utes] prior to application for dust abatement, fire suppression and cleaning trucks, and logging, road building and maintenance equipment.

CLB I (EPA Reg. No. 5813-114)

FOR ENCLOSURES AND EQUIPMENT USED FOR AMPHIBIAN CARE: SPECIAL INSTRUCTIONS FOR CONTROLLING THE SPREAD OF *BATRACHOCHYTRIUM DENDROBATIDIS* (CHYTRID FUNGUS, FUNGAL PATHOGEN OF AMPHIBIANS)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

For Use on Hard, Nonporous Surfaces of Enclosures and Equipment:

Use protective gloves and ventilate area.

- (1) Remove amphibians from area to be treated.
- (2) Mix 1 part of this product to 4 parts water (approximately 1.2% sodium hypochlorite) (11,500 ppm).
- (3) Thoroughly clean and saturate surfaces for 5 min[utes].
- (4) Rinse thoroughly with water before placing amphibians in enclosures or in contact with equipment.

Note: All water used for cleaning enclosures and equipment must be treated with the bleach solution to avoid rinsing the Chytrid fungus down the drain or contaminating other surfaces.

For Use on Hard, Nonporous Field Equipment:

Any hard, nonporous equipment, that comes into contact with water must be treated with bleach to prevent the fungal pathogen from spreading to clean sites (see instructions above). Care must be taken to avoid environmental contamination when disinfecting in the field.

Note: All water used for cleaning equipment must be treated with the bleach solution to avoid spreading the Chytrid fungus.

CLB I (EPA Reg. No. 5813-114)

FOR CLOSED-LOOP LAUNDRY DISPENSING SYSTEMS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

FOR USE WITH [Insert Dispenser Name] APPROVED DISPENSING SYSTEM. Installation and service should only be performed by a [Company Name]: Laundry Expert.



To Sanitize Laundry: Add enough of this product to reach 160 ppm (parts per million) available chlorine. Use a detergent. Ensure contact with bleach [solution] for 10 min[utes]. This product used according to the laundry use directions is effective against *Staphylococcus aureus* [(Staph)], *Pseudomonas aeruginosa* [(Pseudomonas)], *Klebsiella pneumoniae*, and Methicillin Resistant *Staphylococcus aureus* [(MRSA)].

[For use with 4 to 6 gallon buckets/containers as defined in the ASTM standard; see Child Hazard Drowning Pictogram text below:

NOTICE: CHILDREN CAN FALL INTO BUCKET AND DROWN. KEEP CHILDREN AWAY FROM BUCKET WITH EVEN A SMALL AMOUNT OF WATER.]

CLB I (EPA Reg. No. 5813-114)

FOR SANITIZING HOSPITAL LAUNDRY

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

To sanitize laundry, add enough of this product to reach 160 ppm (parts per million) available chlorine. -or- Use 2/3 cup of this product per standard washer, 1 cup for extra large washers or heavily soiled loads. Use a detergent. Ensure contact with bleach [solution] for 10 min[utes]. This product used according to these directions is effective against *Staphylococcus aureus* [(Staph)] [ATCC 6538], *Klebsiella pneumoniae* [ATCC 4352], *Pseudomonas aeruginosa* [(Pseudomonas)] [ATCC 15442], and Methicillin Resistant *Staphylococcus aureus* [(MRSA)] [ATCC 33592].

CLB I (EPA Reg. No. 5813-114)

FOR DISINFECTION OF FLOORS, WALLS, SHOWERS AND TOILETS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

To disinfect floors, walls and showers: For nonporous surfaces such as vinyl or ceramic glazed tile, clean surfaces to remove gross filth. Rinse surfaces thoroughly with a 1800 ppm available chlorine solution. [Use the Dilution Table to make the desired dilution]. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Allow solution to remain on the surface for 5 min[utes]. Rinse. [Let air dry.]

To disinfect toilets: Flush toilet. Pour 1/2 cup [of] bleach into bowl. Brush bowl [thoroughly], making sure to get under the rim and let solution stand for 5 min[utes] and flush again.

CLB I (EPA Reg. No. 5813-114) DISINFECTING GUIDE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product-a germicide-is 6.05% sodium hypochlorite solution containing approximately 5.75% available chlorine by weight. In addition to being a highly effective liquid chlorine bleach for laundering and household disinfecting, it is widely used in sanitation of poultry and livestock houses and equipment, dairies, creameries, restaurants and taverns.

IMPORTANT: Always thoroughly mix with water as directed before using.

Do not allow undiluted product to come in contact with any fabric. (If it does, rinse out immediately with clear, cold water.)

Do not apply with natural sponge.

Do not use on non-stainless steel, aluminum, silver, or chipped enamel.

If used on stainless steel [and other acceptable metals], let solution stand for **no more than 5 min[utes]**, and then rinsed off thoroughly with clear water; otherwise, it may slightly discolor and eventually corrode the metal.

If a metal sprayer is used to apply the solution, rinse sprayer thoroughly after use with clear water, and then oil the plunger.

SEPTIC TANK OPERATION is not affected by regular home and farm use of this product.

TABLE OF LIQUID MEASURES

3 tsp	=	1 Tbsp	=	1/2 Ounce	=	1/16 Cup
16 Tbsp	=	8 Ounces	=	1 Cup	=	1/2 Pint

For directions on sanitizing and disinfecting specific surfaces, write:

**THE CLOROX COMPANY
Consumer Services Department
1221 Broadway, Oakland, California 94612-1888**

CLB I (EPA Reg. No. 5813-114) FOR ASPHALT OR WOOD ROOFS AND SIDINGS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water. Apply a 5000 ppm available chlorine solution by brushing or spraying roof or siding. After 30 min[utes], rinse by hosing with clean water.

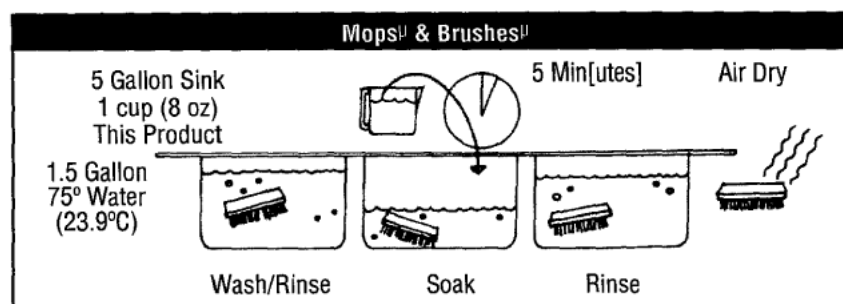
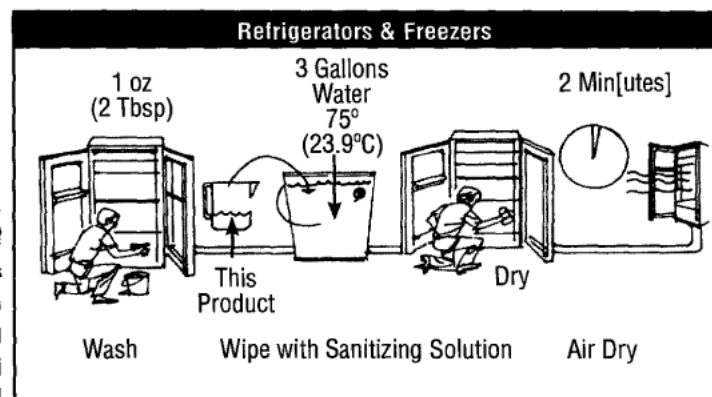
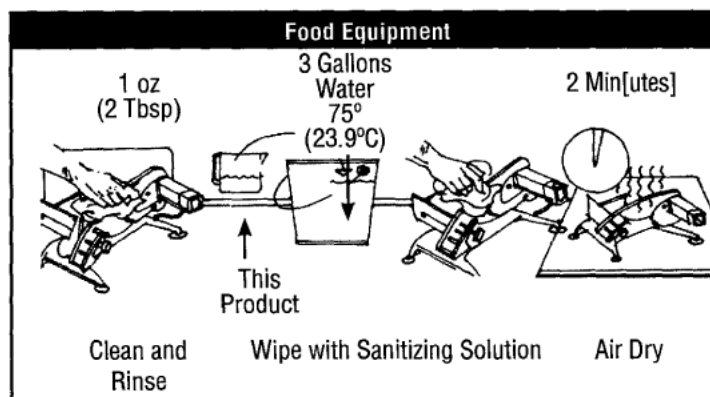
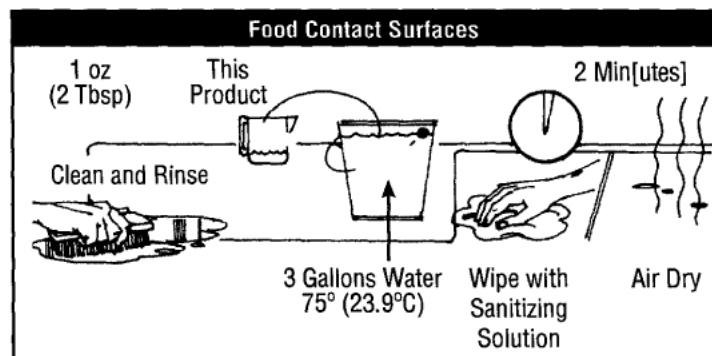
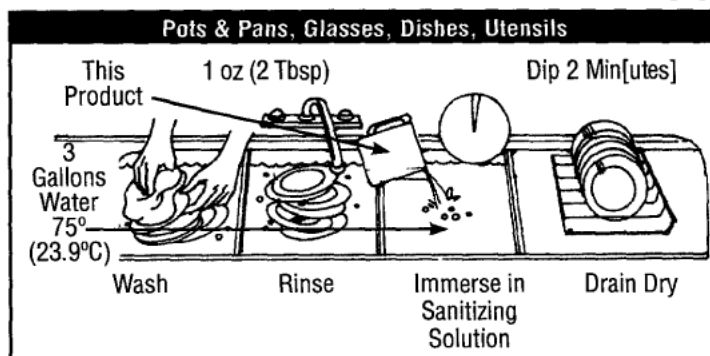
CLB I (EPA Reg. No. 5813-114) HOW TO SANITIZE AND DISINFECT WITH THIS PRODUCT

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

[This product is] An effective multi-purpose sanitizer/disinfectant that kills many bacteria.

2 teaspoons of this product in a gallon of water is equivalent to 150 parts per million (ppm) available chlorine [(equivalent performance to 200 ppm [[test] standard]]). DO NOT use this product full strength for cleaning surfaces. Always dilute strictly in accordance with the directions. For prolonged use, wear gloves.

TO SANITIZE

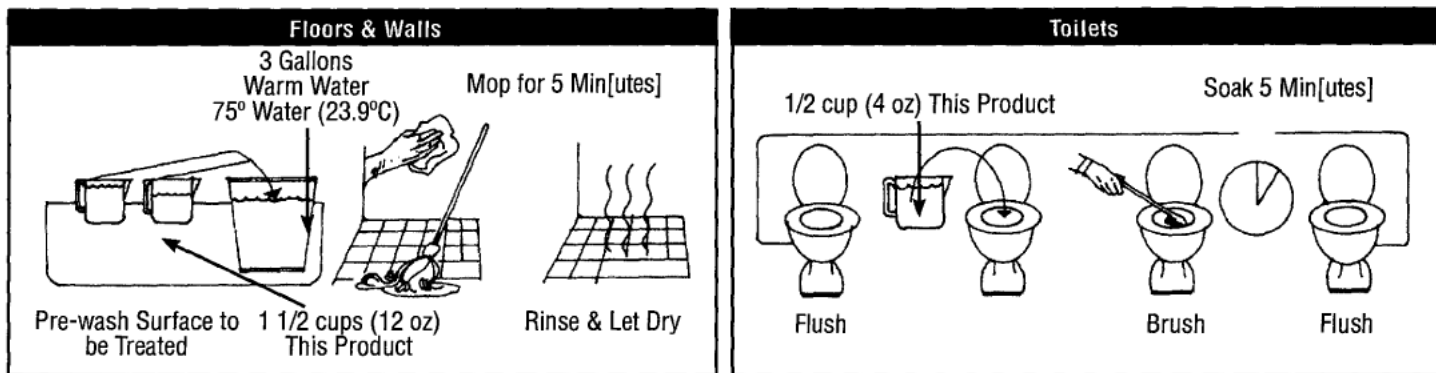


CLB I (EPA Reg. No. 5813-114)

HOW TO SANITIZE AND DISINFECT WITH THIS PRODUCT continued

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

TO DISINFECT



CLB I (EPA Reg. No. 5813-114)
IN SANITATION OF RESTAURANTS AND TAVERNS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

An unclean kitchen and contaminated food result in the hazards of contaminated surfaces. To help avoid this, it is important to keep all work surfaces, equipment and utensils hygienically clean. This product is a highly effective, economical and convenient germicide for this use in restaurants and taverns, as well as in the home.

To sanitize food contact [work] surfaces (not utensils): After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a 150 ppm available chlorine sanitizing solution [(equivalent performance to 200 ppm [[test] standard])]. Apply this solution 2 min[utes]. Air dry.

To disinfect work surfaces (not utensils): After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a 1800 ppm available chlorine disinfecting solution. Apply this solution 5 min[utes]. Rinse with potable water. Air dry.

To sanitize dishes, glassware, utensils: Wash thoroughly; then soak 2 min[utes] in a 150 ppm available chlorine solution [made with hot water] [(equivalent performance to 200 ppm [[test] standard])]. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Drain dry. (Do not use on non-stainless steel, aluminum, silver, or chipped enamel. Disinfect these by scalding.)

Disinfecting sink: A routine follow-up to dishwashing. First wash sink in hot suds. Drain out sudsy water. Then fill with a 1800 ppm available chlorine solution. Let stand 5 min[utes]. Rinse sink.

Sanitizing dishcloths: This product can help you deodorize and sanitize dishcloths. Fill sink with 1 gallon of water. Add 1/2 cup of this product. Soak dishcloths in solution for 5 min[utes], then rinse dishcloths.

To deodorize drain pipes: Flush with very hot water followed by 1/2 cup of this product. Wait 5 min[utes]; flush out with clear water.

To sanitize refrigerators: Remove food before using this product. First wash inside surfaces. Then wipe with a 150 ppm available chlorine solution made with warm water [(equivalent performance to 200 ppm [[test] standard])]. Let stand for [at least] 2 min[utes]. Air dry. (Do not use on non-stainless steel, aluminum, silver, or chipped enamel.)

Ice cream freezers - to clean and sanitize: After using, flush with warm water until water runs clear. Scrub or pressure-spray with solution prepared by thoroughly mixing 1 oz [regular] [powdered] detergent with each gallon of 450 ppm available chlorine solution. Rinse thoroughly with clean, clear water; drain. Immediately before use, sanitize for 2 min[utes] with a 150 ppm available chlorine solution [(equivalent performance to 200 ppm [[test] standard])]; drain thoroughly.

To disinfect hard, nonporous floors (plastic or ceramic tile): Prepare a 1800 ppm available chlorine solution. Mop or scrub. (Do not use on cork or linoleum.) Let stand 5 min[utes]. Rinse.

To sanitize brushes^u, mops^u and brooms^u: After using brushes, mops and brooms, wash thoroughly; then soak for 5 min[utes] in a 2300 ppm available chlorine solution made with warm water. Rinse with clear water; dry. (Do not use on -or- with cellulose sponge mops.)

Pails and dustpans: Remove heavy dirt prior to cleaning. Wash with a 1800 ppm available chlorine solution. Let stand 5 min[utes]. Rinse with clear, cold water. Air dry.

To deodorize and sanitize garbage cans -and/or- diaper pails: Remove heavy dirt with a cleaner. Rinse. Pour in a 2300 ppm available chlorine solution. Swab inside surfaces with this solution. Let stand 2 min[utes]. Rinse with clear water; dry.

DILUTION TABLE: PPM (Parts Per Million Available Chlorine).

Degrades with age and exposure to sunlight and heat. Check the level of available chlorine with a test kit.

1/3 oz this product (2 tsp)	+ 1 Gallon Water	= 150 ppm
[(Equivalent performance to 200 ppm [[test] standard] for food contact surface sanitization)]		
4 oz this product (1/2 cup)	+ 1 Gallon Water	= 1800 ppm
4 oz this product (1/2 cup)	+ 3/4 Gallon Water	= 2300 ppm

CLB I (EPA Reg. No. 5813-114)

IN SANITIZING CYCLE OF CHEMICAL SANITIZING DISHWASHING MACHINES

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product is an approved sanitizing agent for use in the sanitizing cycle of chemical sanitizing dishwashing machines.

Directions for Use:

1. Hook up a Clorox bleach -or- **This Product** bottle to the automatic bleach dispensing system of the chemical sanitizing dishwashing machine. If the bottle is already in place, make sure that sufficient product remains in the bottle to complete the dishwashing job.
2. Wash tableware in the machine following the manufacturer's operating instructions.
3. After the washing/rinsing/sanitizing cycles are completed, remove the dishwashing rack. Let stand 2 min[utes]. Allow the tableware to air dry.

Caution: Do not sanitize silverware or pewter with this product as these metals may darken.

Bleach Dispensing System Adjustments

The following steps must be followed before using a new chemical sanitizing dishwashing machine and on a regular basis thereafter:

- a. Start machine and let run until the machine has begun the final rinse cycle.
- b. Take a sample of the rinse water.
- c. Using a chlorine test kit, determine the parts per million (ppm) of available chlorine in the sample.
- d. If the ppm of available chlorine is lower than the minimum or higher than the maximum level of available chlorine permitted by local public health authorities, adjust the bleach dispensing system.
- e. Repeat steps "a" through "c" until a correct ppm of available chlorine is achieved.

Your equipment service representative or dishwashing detergent supplier will often make these adjustments for you.

Correct Chlorine Concentration

Local public health codes vary with regard to the parts per million of available chlorine permitted in the final rinse water of chemical sanitizing dishwashing machines. The minimum level is 50 ppm of available chlorine with a maximum level of 200 ppm, although some states require 100 ppm minimum level. Check with your local public health department on the applicable regulations for your area.

CLB I (EPA Reg. No. 5813-114) FOR CROP/SITE TREATMENT

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

CROP/SITE: ASPARAGUS SEED TREATMENT

Target Pest/Problem:

To aid in the prevention of asparagus root rot (*Fusarium oxysporium* and *F. asparagi*)

Dosage:

6000 ppm available chlorine solution.

Dilution or Application Rate:

Use 1 gallon of solution per pound of seed.

Method of Application:

Wash seed in solution for 40 min[utes], providing continuous agitation. After washing seed, spread and air dry.

Frequency/Timing of Applications:

1 application.

Preharvest Interval:

Preplant treatment.

Other Requirements:

Do not use treated seeds for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.

CROP/SITE: PEPPER SEED TREATMENT

Target Pest/Problem:

To aid in the prevention of bacterial spot (*Xanthomonas vesicatoria*)

Dosage:

10,000 ppm available chlorine solution.

Dilution or Application Rate:

Use 1 gallon of solution per pound of seed.

Method of Application:

Wash seed in solution for 40 min[utes], providing continuous agitation. After washing seed, spread to air dry.

Frequency/Timing of Application:

1 application.

Preharvest Interval:

Preplant treatment.

Other Requirements:

Do not use treated seed for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.

CROP/SITE: TOMATO SEED TREATMENT

Target Pest/Problem:

To aid in the control of bacterial canker (*Corynebacterium michiganense*) and tobacco mosaic virus (TMV).

Dosage:

10,000 ppm available chlorine solution.

Dilution or Application Rate:

Use 1 gallon solution per pound of seed.

Method of Application:

Wash seed in solution for 40 min[utes], providing continuous agitation. After washing seed, spread to air dry.

Frequency/Timing of Application:

1 application.

Preharvest Interval:

Preplant treatment.

Other Requirements:

Do not use treated seed for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.

CROP/SITE: RICE SEED TREATMENT

Target Pest/Problem:

For prevention of bakanae disease *Fusarium fujikuroi* [syn *F. moniliforme*] -or- *Gibberella fujikuroi*

Dosage:

3000 ppm available chlorine solution.

Dilution or Application Rate:

5 gallons of solution per 95 gallons water.

Method of Application:

Using a thoroughly pre-mixed solution, soak seed for two hours then drain solution and replace with fresh water. Continue seed soaking and draining as usual. Do not apply undiluted product directly to seed.

Dosage:

1500 ppm available chlorine solution.

Dilution or Application Rate:

2.5 gallons solution per 97.5 gallons of water.

Method of Application:

Using a thoroughly pre-mixed solution, soak and drain seed as usual (no rinse required). Do not apply undiluted product directly to seed.

Frequency/Timing of Applications:

1 application during preplant soaking of seed.

Pre-harvest Interval:

Preplant treatment.

Other Requirements:

Do not use treated seeds for food or feed. Prepare fresh solution for each batch of seed.

Note: *this language applicable to any seed treatment listed above*

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear coveralls worn over long-sleeved shirt and long pants, chemical-resistant footwear, chemical-resistant gloves made of any waterproof material, rubber boots plus socks and protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENTS

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the worker protection standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. **IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.]

THIS LABEL MUST BE IN POSSESSION OF THE USER.

REFER TO THE MAIN LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

USER SAFETY REQUIREMENTS

USERS MUST:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the worker protection standard, 40 CFR, part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the worker protection standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the worker protection standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls worn over long-sleeved shirt and long pants, chemical-resistant footwear, chemical-resistant gloves made of any waterproof material, rubber boots plus socks, and protective eyewear.

CLB I (EPA Reg. No. 5813-114)

PLANT PARASITIC NEMATODES AND PLANT DISEASE-CAUSING FUNGI QUARANTINE USE DIRECTIONS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Crop/Site/Commodity:	1. Walks, benches, tools, plant containers in nurseries and other quarantine areas 2. Farm equipment and machinery 3. Laboratory work areas, equipment and specimens 4. Deciduous fruit tree nursery stock (dormant)
Target Pest/Problem:	Plant parasitic nematodes, plant disease-causing fungi and general surface disinfection
Dosage:	See dilution rate.
Dilution or Application Rate:	Six parts water with one part this product (equals approximately 0.85% active ingredient)
	Laboratory work areas, equipment and specimens: Prepare a solution of seven or eight parts water to one part product. Scrub areas and implements thoroughly, then wipe or allow to dry naturally. Workers doing the treatment must wear waterproof gloves. Small tools or implements and other items covered above may be immersed for 5 to 10 min[utes] in the solution instead of scrubbing manually. Wipe off plant tissue or soak tissue in the solution.

Deciduous Fruit Tree Nursery Stock:	Five or six parts water with one part product (equals approximately 0.85% to 1.0% active ingredient)
Method of Application:	Drench and dip method
Deciduous Fruit Tree Nursery Stock:	1. Thoroughly clean all soil from roots. 2. Dip entire tree root system in solution for 30 to 45 seconds. 3. Immediately rinse tree root system with clean water upon removal from dip solution.
Frequency/Timing of Applications:	As needed
Deciduous Fruit Tree Nursery Stock:	One application at harvest (tree-digging period)
Field Reentry After Application:	Not applicable
Preharvest Interval:	Not applicable
Other Requirements:	Do not apply through any type of irrigation system.
Deciduous Fruit Tree Nursery Stock:	Workers required to wear eye protection and waterproof gloves.

CLB I (EPA Reg. No. 5813-114)
KARNAL BUNT QUARANTINE TREATMENT USE DIRECTIONS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Crop/Site/Commodity:	Tools, conveyances, mechanized farm equipment, seed conditioning or milling equipment, soil moving equipment, or grain elevators and structures used for storing and handling grain
Target Pest/Problem:	Karnal bunt (<i>Tilletia indica</i>)
Dosage:	See dilution rate.
Dilution Rate:	Mix 1 part this product to 3 parts water (equals approximately 1.5% active ingredient).
Method of Application:	Before treating remove all soil and plant debris. The dilute solution of sodium hypochlorite will be used to wet the point of runoff surfaces potentially exposed to the pathogen. Saturate any soil removed by the treatment with the solution. Wash down the equipment or site thoroughly with clean water after 15 min[utes] to minimize corrosion.
Crop/Site/Commodity:	Wheat and triticale germplasm for research or seed increase use. Commodities may not be used for food, feed or oil purposes.
Target Pest/Problem:	Karnal bunt (<i>Tilletia indica</i>)
Dosage:	See dilution rate.
Dilution Rate:	Mix 1 part this product to 3 parts water (equals approximately 1.5% active ingredient) with 2mL/L Tween added.
Method of Application:	Treat seed with the dilute solution and agitate for 10 min[utes] at room temperature. Follow seed treatment by a 15 min[ute] rinse with clean, running water, then drying of the seed.
Additional Restrictions, User Precautions and Requirements:	Be sure treated surfaces are dry before handling. Read and follow precautionary statements on product label.

CLB I (EPA Reg. No. 5813-114)
CITRUS CANCKER TREATMENT USE DIRECTIONS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Crop/Site/Commodity:	T511-1 Citrus and other Rutaceous seeds from citrus canker countries
Target Pest/Problem:	<i>Xanthomonas axonopodis</i> , <i>pv. citri</i> (citrus canker)
Dosage:	See dilution rate.
Dilution Rate:	Mix 1 part of this product to 9 parts water (equals approximately 0.6% active ingredient).
Method of Application:	T511-1 seeds shall be treated for possible infection with citrus canker bacteria by first washing seeds if any mucilaginous materials are adhering. Next, immerse the seeds in water at 125 degrees F or higher for 10 min[utes]. Then immerse seeds for a period of at least 2 min[utes] in a 0.6% sodium hypochlorite solution. Drain, dry and repack near original moisture content.

CLB I (EPA Reg. No. 5813-114)
SOUTHERN SEA OAT SEEDS (*UNIOLA PANICULATA*)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Crop/Site/Commodity:	Southern sea oat seeds (<i>Uniola Paniculata</i>)
Target Pest/Problem:	Plant disease-causing bacteria and fungi
Dilution of Product:	Mix 1 part of this product to 1.2 parts water (27000 ppm).
Method of Application:	Soak seeds in solution for 15 min[utes], rinse with tap water and allow to dry at 21°C (70°F) for 30 min[utes]. Store in cool dry location prior to germination.
Frequency/Timing of Application:	Treat seeds prior to germination.
Precautions:	As sodium hypochlorite is corrosive to many metals, chains and other machine parts must be either plastic or plastic coated and must be rinsed with clear water after use of product. Do not mix full-strength product or treatment solution with any other agricultural chemical, ammonia, or acid. Read and follow precautionary statements on product label.
NOTE:	DO NOT USE TREATED SEED FOR FOOD OR FEED. Use bleach treatment only on crops and for the purposes listed. Apply only as specified above.

CLB I (EPA Reg. No. 5813-114)
FOR FRUIT & VEGETABLE WASHING (*commercial use only*)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Thoroughly clean all fruits and vegetables in a wash tank. Prepare a sanitizing solution of 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables for 2 min[utes] in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

CLB I (EPA Reg. No. 5813-114)
AS A FUNGICIDE FOR SEED POTATOES

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product is fungicidal to the Verticillium wilt organism *V. albo-atrum* (microsclerotial type) on seed potatoes. A bleach solution of this product is applied to whole seed and freshly cut seed potato pieces during the cutting operation for planting. [Research at the Washington State University Irrigated Agriculture Research and Extension Center² has shown that treatment with a sodium hypochlorite solution helps to prevent the spread of organisms to uninfected soil or fields via seed potato surfaces.]

Use Instructions

Thoroughly mix a solution of 6000 ppm available chlorine for spraying. Use this solution to spray freshly cut seed potato pieces from the top and bottom of the cutting chain or elevator with a series of non-mist nozzles at 3 to 5 psi. Thoroughly cover all cut and uncut surfaces with the solution. The treatment will be most effective on clean seed tubers, as the organic matter in soil will reduce the effectiveness of the sodium hypochlorite.

Plant within four hours of the cutting and bleach treatment operation. If planting is delayed, store the treated seed in clean, open, well-ventilated bins or truck beds. Storing cut, wet seed in large unventilated containers will contribute to secondary breakdown from soft rot organisms.

Safety Precautions

Do not mix full-strength product or treatment solution with any other agricultural chemical, ammonia, or acid. Avoid prolonged contact of this product with skin. Wear safety glasses. If full strength or diluted bleach is splashed in the eyes, flush with water.

Conduct the spraying operations either outside, in a well-ventilated building, or under a hooded exhaust system. Use non-misting nozzles to avoid breathing of mist. Wear a face mask and plastic or rubber gloves and clothing. Because sodium hypochlorite is corrosive to many metals, chains and other machine parts should be either plastic or plastic-coated and rinsed with clear water after use.

NOTE: DO NOT USE THE TREATED SEED FOR FOOD OR FEED. Use the bleach treatment only on crops and for the purposes recommended. Apply only as specified above. Do not apply in a dipping operation or bleach solution may become contaminated with soil and organic matter from the potato surfaces and lose its effectiveness.

²Easton, G.D., M.E. Nagle, and D.L. Bailey, 1972. "*Verticillium albo-atrum* Carried by Certified Seed Potatoes into Washington and Control by Chemicals", *American Potato Journal* 49: 397-402.

CLB I (EPA Reg. No. 5813-114) FOR MEAT AND POULTRY PROCESSING WATER

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product may be used in processing water of meat and poultry plants at concentrations up to 5 ppm (parts per million) calculated as available chlorine. Chlorine may be present in poultry chiller intake water, in water for reprocessing poultry carcasses internally contaminated with feces, and in red meat carcass final wash water at concentrations between 25 and 50 ppm calculated as available chlorine. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Chlorine must be dispensed at a constant and uniform level and the method or system must be such that a controlled rate is maintained. Do not recirculate or re-use processing water.

CLB I (EPA Reg. No. 5813-114) FOR SANITIZING SOLUTIONS FOR EQUIPMENT AND UTENSILS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product is authorized for use as a sanitizing solution in official establishments operating under the USDA meat, poultry, shell egg grading and egg products inspection programs.

Before using this product, food products and packaging materials must be removed from the room or kept protected.

Before they are treated with a bleach solution, the food processing equipment and utensils must be thoroughly washed and then rinsed with clear, cold water.

The bleach solution used for sanitizing must not exceed ~~20~~150 ppm (parts per million) available chlorine. [Use the Dilution Table to make the desired dilution]. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] The bleach solution must be applied by spraying, soaking or scrubbing. Treated surfaces must remain wet for at least 2 -or- two min[utes].

A potable water rinse is not required, provided the equipment and utensils are adequately drained before they come into contact with food. Little or no residue must remain to adulterate or otherwise affect edible products.

**CLB I (EPA Reg. No. 5813-114)
FOR MEAT & POULTRY PLANT LAUNDRY USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product may be used on fabric which contacts meat or poultry products directly or indirectly, provided that the fabric is thoroughly rinsed with potable water at the end of the laundering operation.

To sanitize laundry, add enough of this product to reach 160 ppm (parts per million) available chlorine (2/3 cup of bleach per standard washer, 1 cup for extra large washers or heavily soiled loads). Use a good detergent. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Adjust to exactly 160 ppm available chlorine.

**CLB I (EPA Reg. No. 5813-114)
SANITATION IN CARE OF SWINE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Hog houses and farrowing houses - To clean and disinfect:

- (1) Pre-clean by removing loose dirt, litter and debris. Dirty or coated surfaces cannot be disinfected.
- (2) Prepare a 2300 ppm available chlorine solution. Let stand for [at least] 5 min[utes].
- (3) Scrub or pressure-spray all surfaces with this solution. Rinse with clear, cold water.
- (4) Allow to dry before housing pigs.

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stall chutes and other facilities occupied or traversed by animals. Empty all troughs, feeding and watering appliances. Thoroughly clean all surfaces with soap or detergents and rinse with water.

Ventilate buildings, cars, boats and other closed spaces. Do not house livestock, poultry or employ equipment until chlorine has dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse.

Clean and disinfect metal watering troughs and feeders by pressure-spraying or scrubbing with a of 2300 ppm available chlorine solution. Let stand for [at least] 5 min[utes]. Rinse thoroughly with clear, cold water; drain dry. (Clean and disinfect drinking troughs and feeders before housing pigs, and as often as necessary to keep sanitary.)

To sanitize drinking water: Prepare a 5 ppm available chlorine solution using clear water. (Water containing suspended material is difficult to sanitize.)

NOTE: Clean metal surfaces can be sanitized using the above method. Wooden surfaces are difficult to sanitize by any method.

[Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.

**CLB I (EPA Reg. No. 5813-114)
FOR POULTRY CARE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Keeping poultry healthy, productive and profitable is largely a problem of disease prevention. Remedial measures are much more difficult and often less successful than preventing the spread of disease before it infects the flock. Regular use of this product in the sanitation and disinfection of chicken houses, brooders, and other poultry equipment is an effective aid in preventing many diseases of bacterial and viral origin.

To sanitize drinking water: Prepare a 5 ppm available chlorine solution using clear water. Let stand 1 min[ute]. Use in glass, porcelain, stoneware or concrete containers. Clean containers daily; rinse.

For young chicks, prepare a 2 ppm available chlorine solution since baby chicks do not soil the water as rapidly as grown chickens, and the solution retains its effectiveness longer.

When cleaning drinking water containers, etc., an 1800 ppm available chlorine solution is effective in removing the slime. **DO NOT ALLOW BIRDS TO DRINK THIS SOLUTION.**

To clean and disinfect poultry houses, brooders, hatcheries: Clean and disinfect poultry houses between cycles. Clean hatcheries weekly or as necessary to keep sanitary. Metal surfaces can be satisfactorily disinfected. Wooden surfaces are difficult to sanitize by any method.

- (1) Remove all litter, loose dirt and debris.
- (2) Prepare a 2300 ppm available chlorine solution.
- (3) Using this solution, scrub or pressure-spray all exposed areas, including floor, walls, ceiling posts and support beams. Let stand for 5 min[utes].
- (4) Rinse with clean, clear, cold water.
- (5) Let dry thoroughly before introducing poultry.

Metal incubators, feeders, water containers, other poultry equipment and utensils - To clean and disinfect: Preclean removing loose dirt and debris. Scrub or pressure-spray with a 2300 ppm available chlorine solution. Let stand [for] 2 [at least] 5 min[utes]. Rinse with clear, **cold** water. Let dry.

For continuous washers, prepare washing solution as above. Add an additional 4 gallons of 50 ppm available chlorine solution every 30 min[utes]. Dump wash tank and recharge every 2 hours. **For manual method,** soak eggs for only 1 to 2 min[utes]. Agitate basket. Make sure eggs are completely covered.

Air-dry eggs as rapidly as possible. Store in cool (55° F) room. Maintain relative humidity of 60-80%.

NOTE: Keep egg-washing equipment sanitary. Frequent cleaning will aid in operation and produce more sanitary eggs. While equipment is idle, bacteria can multiply. This contamination can be reduced by thoroughly flushing all equipment immediately before use with a solution of 200 ppm available chlorine.

CLB I (EPA Reg. No. 5813-114)

SPECIAL INSTRUCTIONS FOR INACTIVATING AVIAN INFLUENZA A VIRUS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

FOR INACTIVATION OF AVIAN INFLUENZA A VIRUS IN POULTRY HOUSES, BROODERS, HATCHERIES:

1. Remove all poultry or animals and feeds from the premises, trucks, vehicles, coops, crates and enclosures.
2. Remove all litter and manure or droppings from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals or poultry.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Mix 1 part of this product with 32 parts water. Saturate all surfaces with the disinfecting solution for 5 min[utes].
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
7. Ventilate buildings, coops, and other closed spaces. Do not house livestock or poultry or employ equipment until treatment has been absorbed, set, or dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

**CLB I (EPA Reg. No. 5813-114)
IN CARE OF LIVESTOCK, HORSES, PETS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

To clean and disinfect barns, stables, hutches, kennels: Preclean removing all litter, loose dirt and debris. Prepare a 2300 ppm available chlorine solution. Using the solution, thoroughly scrub or pressure-spray all exposed areas including floor, walls, ceiling posts and support beams. Let stand for [at least] 5 min[utes]. Rinse with clean, clear, **cold** water. Let area dry thoroughly before housing animals.

Loading and hauling equipment: Loading chutes, trucks, trailers and other equipment for transportation of animals must be cleaned and disinfected prior to use. Pressure-spray or scrub with a 2300 ppm available chlorine solution. Let stand for [at least] 5 min[utes]. Rinse with clean, clear, **cold** water. Allow to dry before use.

Feeders and drinking water containers - to clean and disinfect: Thoroughly scrub or pressure-spray with a 2300 ppm available chlorine solution. Let stand for [at least] 5 min[utes]. Rinse thoroughly with clear, **cold** water; allow to drain dry. (A solution of 1800 ppm available chlorine is effective in removing slime which sometimes forms on drinking water containers. **DO NOT LET ANIMALS DRINK THIS SOLUTION.**)

To sanitize animals' drinking water: Prepare a 5 ppm available chlorine solution using clear water. Use in glass, plastic, porcelain or concrete containers daily. (See directions above.)

**CLB I (EPA Reg. No. 5813-114)
FOR FOOD EGG SANITIZATION**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

To sanitize food eggs: Thoroughly clean all eggs. Prepare a 200 ppm available chlorine solution. Let stand [for] 10 min[utes]. The sanitizer temperature must not exceed 130° F. Spray the warm sanitizer so that the eggs are completely wet. Allow the eggs to fully dry before casing or breaking. Do not apply a potable water rinse. The solution must not be re-used to sanitize eggs.

**CLB I (EPA Reg. No. 5813-114)
FOR DAIRY AND CREAMERY EQUIPMENT SANITATION**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product is effective as a chemical sanitizer of milk utensils, containers and equipment. This product dissolves milk solids and other protein material and is a quick and effective deodorizer.

An exposure period of at least 2 min[utes] to a 150 ppm available chlorine solution must be maintained when the solution temperature is 75° F. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Lower solution temperatures result in slower action; for each 18° F drop in temperature, approximately double the exposure time is needed to achieve equivalent bactericidal action with same strength of solution. You can also compensate for lower temperatures by increasing the concentration of this product.

You must clean out large deposits of milk or other organic matter before applying this product/water solution. A sharp decline in the available chlorine content of the solution following circulation through milk processing equipment is usually regarded as evidence of inadequate cleaning of the equipment. If this occurs, investigate promptly.

RUBBER TEAT CUPS AND TUBES - Before each milking, prepare a 150 ppm available chlorine sanitizing solution. Dip teat cups into this solution for 2 min[utes] before transferring them from one cow to another.

To sanitize - SOAKING METHOD: After each milking, wash cups and tubes by brushing thoroughly with detergent solution. Rinse cups and tubes with cold water. Prepare a 150 ppm available chlorine sanitizing solution in earthenware, glass, porcelain or stoneware containers. Submerge cups in this solution for 2 min[utes], holding ends of tubes; coil tubes slowly into solution between milkings; drain thoroughly before using.

To maintain sanitizing solution at proper strength, add 1/2 oz of this product daily (in hot weather, 3/4 oz) for each 3 gallons water, mix well. Old solution may be utilized for deodorizing and making floors and drains sanitary; for this purpose, add 1 oz of this product for each 5 gallons of old solution; mix well.

To sanitize - RACK METHOD: After each milking, rinse cups and tubes in cold water. Wash in detergent solution, then rinse. Prepare a 150 ppm available chlorine sanitizing solution; place solution in bottle above rack for 2 min[utes]. Place tubes and cups in rack; fill with solution and let stand between milkings; drain thoroughly and air dry before using. Old solution may be utilized in deodorizing and making floors and drains sanitary.

METAL TEAT CUPS AND TUBES - Before each milking, prepare a 150 ppm available chlorine sanitizing solution. Dip teat cups into this solution before transferring them from one cow to another.

To sanitize: After each milking, rinse cups and tubes with cold water. Wash in detergent solution; rinse in a 150 ppm available chlorine solution for 2 min[utes]; drain thoroughly and dry before using. **(DO NOT leave metal cups in bleach solution.)**

To clean and sanitize milking machines and utensils: Immediately after milking, flush equipment with clean, lukewarm water. Dismantle equipment after each milking and wash it (including all rubber parts and stanchion hoses) and all utensils with a solution prepared by thoroughly mixing 1 oz of your [regular] [powdered] detergent with each gallon of a 150 ppm available chlorine solution. Water temperature must be 100° F to 130° F. **(DO NOT MIX THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.)** Rinse equipment and utensils thoroughly with clean, clear water; drain. Air dry. **Immediately before use, sanitize according to directions shown below.⁵⁶**

Cleaning in place - bulk storage tanks, dairy pipelines, transfer stations: Immediately after emptying milk, flush surfaces with a large volume of clear, lukewarm water until water runs completely clear. Thoroughly mix solution of 1 oz of your [regular] [powdered] detergent with each gallon of a 150 ppm available chlorine solution. Use hot water if available, and maintain the temperature of the solution at 120-160° F throughout the entire circulation. **(DO NOT USE THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.)** Circulate the sanitizing solution through the system for 10 to 15 min[utes] (Brush-wash with solution all parts not coming in contact with solution as it circulates.) Rinse thoroughly with clean, clear water; allow to drain. Air dry. Seal this equipment to help protect against contamination. **Immediately before use, sanitize according to directions shown below.⁵⁶**

Separators, strainers, milk cans, pails, churns, pasteurizers - To clean and sanitize: After using, rinse immediately with clear, cold water; then scrub or pressure-spray with solution of 1 oz of your [regular] [powdered] detergent thoroughly mixed with each gallon of 150 ppm available chlorine solution. Rinse with clean, clear water; drain thoroughly. Air dry. **Immediately before use, sanitize according to directions shown below.⁵⁶**

Milk bottles - To sanitize: Clean and rinse, then immerse for 2 min[utes] in a 150 ppm available chlorine solution prepared with cold or lukewarm water; drain; fill. If bottles are not filled promptly, rinse again with same strength bleach solution immediately before filling; drain thoroughly. Air dry. Ordinarily, 12 gallons of this strength solution will sanitize 5000 clean quart bottles. Keep this bleach solution clean and free from milk particles.

Ice cream freezers - To clean and sanitize: After using, flush with warm water until water runs clear. Scrub or pressure-spray with solution prepared by thoroughly mixing 1 oz of [regular] [powdered] detergent with each gallon of 150 ppm available chlorine solution. Let stand 2 min[utes]. Rinse thoroughly with clean, clear water; drain. Air dry. **Immediately before use, sanitize according to directions shown below.⁵⁶**

CLB I (EPA Reg. No. 5813-114)

FISH PONDS AND EQUIPMENT

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Fish Ponds: Remove fish from ponds prior to treatment. Thoroughly mix 220 oz of this product to 10,000 gallons of water to obtain 10 ppm available chlorine. Add more product to the water if the available chlorine level is below 1 ppm after 5 min[utes]. Return fish to pond after the available chlorine level reaches zero.

Fish Pond Equipment: Thoroughly clean all equipment prior to treatment. Thoroughly mix 5 oz of this product to 10 gallons of water to obtain 200 ppm available chlorine. Soak porous equipment for one hour.

CLB I (EPA Reg. No. 5813-114)

MAINE LOBSTER PONDS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Remove lobsters, seaweed, etc. from ponds prior to treatment. Drain the pond. Thoroughly mix 13000 oz of this product to 10,000 gallons of water to obtain 600 ppm available chlorine. Apply so that all barrows, gates, rocks and dams are treated with product. Permit high tide to fill the pond then close gates. Allow water to stand for 2 to 3 days until the available chlorine level reaches zero. Open gates and allow 2 tidal cycles to flush the pond before returning lobsters to pond.

CLB I (EPA Reg. No. 5813-114)

CONDITIONING LIVE OYSTERS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Thoroughly mix 12 oz of this product to 10,000 gallons of water to 50 - 70°F to obtain 0.5 ppm available chlorine. Expose oysters to this solution for at least 15 min[utes], monitoring the available chlorine level so that it does not fall below 0.05 ppm. Repeat entire process if the available chlorine level drops below 0.05 ppm or the temperature falls below 50°F.

CLB I (EPA Reg. No. 5813-114)

CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Prepare a solution containing 200 ppm of available chlorine by mixing 5 oz of this product with 10 gallons of water. Pour into drained pond potholes. Repeat if necessary. Do not put desirable fish back into refilled ponds until chlorine residual has dropped to 0 ppm, as determined by a chlorine test kit.

CLB I (EPA Reg. No. 5813-114)
FOR EMERGENCY DISINFECTION OF DRINKING WATER (POTABLE)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Emergency disinfection:

When boiling of water for 1 min[ute] is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified contaminated water to a clean container and add 8 drops to 1 gallon of water [(2 drops to 1 quart)] or add 1/8 teaspoon of this product to 1.5 gallons of water. Allow the treated water to stand for 30 min[utes]. Properly treated water will have a slight chlorine odor. If not, repeat dosage and allow the water to stand an additional 15 min[utes]. The treated water can then be made palatable by pouring it between clean containers several times.

For cloudy water, use 16 drops per 1 gallon of water [(4 drops to 1 quart)] or add 1/4 teaspoon of this product per 1.5 gallons of water. If no chlorine odor is apparent after 30 min[utes], repeat dosage and wait an additional 15 min[utes].

CLB I (EPA Reg. No. 5813-114)
FOR DISINFECTION OF POTABLE DRINKING WATER SYSTEMS
(Public and Individual Systems)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Public system:

Mix a ratio of this product to water to produce a 10 ppm available chlorine by weight. Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

Individual systems:

1. Dug wells: Upon completion of the casing (lining), wash the interior of the casing (lining) with a 100 ppm available chlorine solution using a stiff brush. After covering the well, pour the sanitizing solution into the well through both the pipesleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Consult your local Health Department for further details.

Individual water systems:

1. Drilled, driven and bored wells: Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. Add 5 to 10 gallons of clean, chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of pump cylinder with the sanitizer. Drop pipeline into well, start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer into the well. Mix well [(2 drops to 1 quart)]. Consult your local Health Department for further details.

2. Flowing artesian wells: Artesian wells generally do not require disinfection. If analysis indicates persistent contamination, disinfect the well. Consult your local Health Department for further details.

CLB I (EPA Reg. No. 5813-114)
FOR EMERGENCY DISINFECTION AFTER FLOODS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Wells:

Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to produce a 10 ppm available chlorine residual, as determined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to produce a 50 ppm available chlorine residual. Agitate the well water for several hours and take a representative water sample. Re-treat well if water samples are biologically unacceptable.

CLB I (EPA Reg. No. 5813-114)
FOR EMERGENCY DISINFECTION AFTER FIRES

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Cross connections or emergency connections:

Set up the hypochlorination or gravity feed equipment near the intake of the untreated water supply. Apply sufficient product to give a chlorine residual of at least 0.1 to 0.2 ppm at the point where the untreated supply enters the regular distribution system. Use a chlorine test kit.

CLB I (EPA Reg. No. 5813-114)
FOR EMERGENCY DISINFECTION AFTER DROUGHTS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

A. Supplementary water supplies:

Set up the gravity or mechanical hypochlorite feeders on a supplementary line to dose the water to a minimum chlorine residual of 0.2 ppm after a 20 min[ute] contact time. Use a chlorine test kit.

B. Water shipped in by tanks, tank cars, trucks, etc.:

Thoroughly clean all containers and equipment. Spray a 500 ppm available chlorine solution and rinse with potable water after 5 min[utes]. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.22 ppm chlorine residual. Use a chlorine test kit.

CLB I (EPA Reg. No. 5813-114)
FOR EMERGENCY DISINFECTION AFTER MAIN BREAKS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Mains:

Before assembly of the repaired section, flush out mud and soil. Permit water flow of at least 2.5 feet per min[ute] to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

CLB I (EPA Reg. No. 5813-114) FOR SPAS, HOT TUBS AND IMMERSION TANKS, ETC.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Spas/hot tubs:

Using a dilution chart or formula, calculate an approximate amount of product per 1000 gallons of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.8. Some oils, lotions, fragrances, cleansers, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

1. **Maintaining the water:** To maintain the water, apply the product solution over the surface to maintain a chlorine concentration of 5 ppm.
2. **After each use:** Shock treat to control odor and algae, using the product at a rate of 1 3/4 cups to 500 gallons of water.
3. **Periods of disuse:** During periods of disuse, add product daily to maintain a 3 ppm chlorine concentration.
4. **Do not reenter pool** until the chlorine level is between 1 to 3 ppm. Re-entry to treated spas/hot tubs is prohibited above 5 ppm due to risk of bodily harm.

CLB I (EPA Reg. No. 5813-114) FOR WADING POOL DISINFECTION

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product—a 6.05% sodium hypochlorite solution containing approximately 5.75% available chlorine by weight—is a convenient, economical source of chlorine for water treatment in swimming and wading pools. Also, because this product is a liquid with no insoluble particles, it is especially suitable for this use.

In chlorinating wading pools, use 1/8 cup per 100 gallons of new water. Mix required amount of this product with 2 gallons of water and scatter over surface of pool. Mix uniformly with pool water. Between fillings of pool, add 1 tablespoon of this product per 100 gallons of water each day. Empty small pools daily. (This product will not harm plastic pools.)

Do not reenter pool until the chlorine residual is between 1 to 3 ppm.

The chart below is a guide to the amount of this product to add to various sized round pools. Add three-fourths -or- 3/4 ounce -or- [fl] oz of this product to every 100 gallons of pool water.

Pool Diameter Depth of Water	4 Ft	6 Ft	8 Ft	10 Ft	15 Ft
6 inches	1/16 cup	1/8 cup	1/4 cup	3/8 cup	3/4 cup
1 foot	1/8 cup	1/4 cup	1/2 cup	3/4 cup	1 5/8 cup
2 feet	1/4 cup	1/2 cup	1 cup	1 1/2 cup	3 1/4 cup
3 feet	3/8 cup	3/4 cup	1 1/2 cup	2 1/4 cup	5 cups

TABLE OF LIQUID MEASURES

3 tsp	=	1 Tbsp	=	1/2 ounce	=	1/16 cup
16 Tbsp	=	8 ounces	=	1 cup	=	1/2 pint

Stabilized pools must maintain a residual of 1.0 to 1.5 ppm available chlorine. Test the pH, available chlorine residual and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers.

CLB I (EPA Reg. No. 5813-114) FOR SWIMMING POOL DISINFECTION

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product is a 6.05% sodium hypochlorite solution containing approximately 5.75% available chlorine by weight. The purity of its ingredients and the carefully supervised process of its manufacture make this product a quality source of chlorine for water treatment in swimming and wading pools. This product is especially suitable for use in chlorinators as it is a liquid and has no insoluble particles. This product is widely used as a source of chlorine for swimming pool sanitation and does not have any adverse effects on materials used in pool construction including swimming pool liners.

For each new filling of your pool, use following initial dosages of this product.

Swimming Pool Size in Gallons	Initial Dosage of this product	Swimming Pool Size in Gallons	Initial Dosage of this product
5,000	3 cups	20,000	13 cups
6,000	4 cups	25,000	17 cups
8,000	5 cups	30,000	20 cups
10,000	6 cups	35,000	23 cups
15,000	10 cups		

NOTE: 2 cups = 1 pint; 4 cups = 1 quart; 16 cups = 1 gallon

To determine the volume of water in the pool when filled, figure 7 1/2 gallons of water for each cubic foot of pool capacity. One quart of this product per 6,000 gallons of water will supply approximately 2 ppm (parts per million) available chlorine, but this may dissipate rather rapidly in new water depending on the general sanitation conditions of the pool. Repeat dosage as needed to obtain 0.6 to 1.0 ppm available chlorine. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.

In chlorinating a swimming pool, mix the required amount of this product with 10 parts water and feed this solution through a chlorinator into the main water supply line to the pool. Adjust the feeding rate so the required quantity of this product will be added uniformly throughout the filling of the pool; or, if the water is circulated through a filter, add the bleach throughout one complete circulation. If this product cannot be fed into the main water supply line, mix 1/2 pint of this product with 5 gallons of water and scatter over a portion of the pool surface; repeat until the required amount of this product has been scattered over entire surface of the pool.

Check chlorine level in pool water at least daily with a pool testing kit and add this product as needed to maintain 0.6 to 1.0 ppm available chlorine. One pint of this product per 6,000 gallons of water will supply approximately 1.0 ppm available chlorine. Frequency of application of this dosage will vary depending on number of people using the pool, weather conditions (sunlight exposure) and general cleanliness of the pool area. Maintain the chlorine level for acid-stabilized pools at 1.0 to 1.5 ppm available chlorine.

Re-entry to treated pools is prohibited above 4 ppm due to risk of bodily harm.

Every 7 days, or as necessary, superchlorinate the pool with 100-200 oz of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Do not reenter pool until the chlorine residual is between 1 to 3 ppm.

The effectiveness of the chlorine is best when the pool water has a pH range of 7.2 to 7.6. The pH of the pool water must be checked daily using a pool pH testing kit and adjusted as necessary.

The regular use of this product, in the above proportions, in the swimming pool usually prevents the growth of algae in the water; however, if algae growth is causing the pool water to look cloudy and uninviting, it may be corrected by doubling the initial dosage of this product for a few treatments (2 quarts instead of 1 quart per 6,000 gallons of new water). Add the additional product to the pool in the evening after the pool is out of use so the excess chlorine will be dissipated before the pool is used again.

If algae are growing on the bottom or walls of the pool, scrub pool with a solution of 1/2 gallon of this product to 5 gallons of water applying solution with a fiber brush. Scrub the pool while wet and then rinse off after algae growth has been removed. Flush all of the growth and dirty solution from the pool with clear water before the pool is refilled. Avoid skin contact with undiluted product; if such contact occurs, rinse immediately with water. When added, this product has no deleterious effects on the eyes, nasal passages, or skin of people using the pool and will have no effect on swimming apparel.

CLB I (EPA Reg. No. 5813-114) DILUTION TABLE

To obtain a solution with an approximate available chlorine level (parts per million), thoroughly mix the indicated amounts of bleach and water. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Always test to ensure efficacy.

Approximate ppm Available Chlorine	Volume of this product	Volume of Water	Approximate ppm Available Chlorine	Volume of this product	Volume of Water
27000	1 part	1.2 parts	200	1 Tbsp	1 gallon
11,500	1 part	4 parts		5 oz	10 gallons
10,000	1 part	4.5 parts	150	2 tsp (1/3 oz)	1 gallon
8,200	1 part	6 parts		2 Tbsp (1 oz)	3 gallons
7,200	1 part	7 parts	100	2.5 oz	10 gallons
6,000	1 part	9 parts	50	3/4 tsp	1 gallon
2,300	1/2 cup (4 oz)	3/4 gallon		1 gallon	1,000 gallons
	1 cup (8 oz)	1.5 gallons	25	1/2 tsp	1.5 gallons
	2 cups (16 oz)	3 gallons		2.5 tsp	7 1/2 gallons
	1 part	24 parts	10	4 drops	1 quart
1800	1/2 cup (4 oz)	1 gallon		1/4 tsp	1.5 gallons
1500	2.5 gallons	97.5 gallons		16 drops	1 gallon
600	3 Tbsp (1.5 oz)	1 gal[ion]		220 oz	10,000 gallons
	13000 oz	10,000 gallons	5	2 drops	1 quart
500	1 part	120 parts		8 drops	1 gallon
450	1/2 cup (4 oz)	4 gallons		1/8 tsp	1.5 gallons
			0.5	12 oz	10,000 gallons

DILUTION TABLE: PPM (Parts Per Million Available Chlorine).
 Degrades with age and exposure to sunlight and heat. Check the
 level of available chlorine with a test kit.

1/3 oz this product (2 tsp) + 1 Gallon Water = 150 ppm
 [(Equivalent performance to 200 ppm [[test] standard] for
 food contact surface sanitization)]

4 oz this product (1/2 cup) + 1 Gallon Water = 1800 ppm

4 oz this product (1/2 cup) + 3/4 Gallon Water = 2300 ppm

Table of Liquid Measures:

1 drop = 0.0017 oz
 1 Tbsp = 3 tsp
 1 oz = 2 Tbsp
 1 cup = 8 oz
 1 pint = 2 cups = 16 oz
 1 quart = 4 cups = 2 pints = 32 oz
 1 gallon = 4 quarts = 8 pints = 16 cups = 128 oz

Footnotes

- ¹ 10 min[ute] contact time
- ² Streptococcus pyogenes
- ³ Staphylococcus aureus, MRSA
- ⁴ Sanitizes: Staphylococcus aureus and Klebsiella pneumoniae
- ⁵ Pseudomonas aeruginosa
- ⁵⁶ **BEFORE USE** - Rinse with a 150 ppm available chlorine sanitizing solution for 2 min[utes]; drain thoroughly.
- ^{††7} Rhinovirus [Type 37] and Influenza A virus
- ^{*8} vs. -or- compared to [previous] Clorox® Regular-Bleach1 [EPA Reg. No. 5813-100]-or- Clorox® Germicidal Bleach [EPA Reg. No. 5813-102]
- [†] Influenza A virus
- ^{†††} Protect against germs on hard, nonporous surfaces
- ^{††††} Rhinovirus
- [‡] Viruses
- ^{‡‡} Bloodborne Pathogens
- ^{§§} Staphylococcus aureus, Salmonella enterica, Rhinovirus [Type 37] and Influenza A virus.
- ^{§§} Staphylococcus aureus, Salmonella enterica, Rhinovirus [Type 37] and Influenza A virus.
- ^{§§§§} Extended Spectrum Beta Lactamase producing Escherichia coli
- ^{¥¥} Follow [the] Special Instructions for Cleaning Prior to Disinfection [listed on label]
- ^{¥¥} ***insert organism(s) from List 2A or 2B, with correct corresponding dilution in Directions For Use***
- ^{¥¥¥¥} Methicillin resistant Staphylococcus aureus
- ^ζ For other germs -or- organisms -or- viruses -and/or- bacteria -and/or- fungi, see back label -or- panel
- ^[o] This strain of Multi-drug Resistant Enterococcus faecium has shown resistance to the following antibiotics Ampicillin, Gentamicin]
- ^{eeP} [on] hard, nonporous surfaces [of]
- ^μ made of hard, nonporous materials
- ^f [This product] removes 10 of the most difficult laundry stains -or- 10 laundry stains: Tea, Coffee, [Red] Wine, [Blue]berry, Spaghetti -or- Tomato Sauce, Chocolate [Syrup], Mustard, Gravy, [Grape] Juice, [Ball Point] Ink.
- ^[t] vs. Clorox® Regular-Bleach1 -and/or- Clorox® Performance Bleach -and/or- Clorox® Germicidal Bleach -and/or- Clorox® Commercial Solutions Clorox Germicidal Bleach1 -and/or- previous formula]
- ^[tt] [due to] temporary surface treatment -or- conditions surface by reducing soil adhesion]
- ^[tttt] food grease -and/or- food oil -and/or- coffee stains -and/or- tea stains -and/or- soap scum -and/or- water marks -and/or- dirt -and/or- mud -and/or- toothpaste]
- [†] must preclean surface prior to disinfection
- ^{‡‡} [1/2 cup] in 1 gallon of water
- ^{**} vs. detergent alone
- ^{***} vs. [a/-or- the] [leading] [bargain/-or- value] detergent alone [in HE machines]



The Clorox Company



January 27, 2017

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Office of Pesticide Programs -7504P
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Re: CLB I, EPA Reg. No. 5813-114
OPP EL0834

Dear Mr. Fuller:

We are submitting a label notification. The changes are non-mandatory labeling changes and are highlighted, and deleted text is struck-out in red. We are moving the footnotes to the last page; it is a new section. We are updating the following items on the label:

- Add brackets around a sentence (pp. 8, 9)
- Add sentence that was inadvertently left off our last label; was required to add it per efficacy Data Evaluation record (p. 9)
- Change qualifying symbols (pp. 15, 19, 23-25, 27-28, 48, 55)
- Change word (p. 22)
- Remove claim (p. 27)
- Add virus qualifying symbol (p. 27)
- Correct the ppm (p. 44)
- Add "virus" (p. 46)
- Move all footnotes to the last page (p. 55)

Thank you for reviewing the enclosed submission. If you have any questions, please contact me at 925-368-9026 or Julie Timberman at 925-368-9043.

Sincerely,

J. Evelyn Lawson
Federal Registration Specialist
The Clorox Company
CTCPSERC@Clorox.com



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

EL0834

Application for Pesticide - Section I

1. Company/Product Number 5813-114	2. EPA Product Manager Demson Fuller	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) CLB I	PM# 32	
5. Name and Address of Applicant (Include ZIP Code) The Clorox Company c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of non-mandatory label additions per PR Notice 98-10: see cover letter for more information.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. § 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under § 12 and § 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name J. Evelyn Lawson		Title Federal Registration Specialist		Telephone No. (Include Area Code) (925) 368-9026	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped)
2. Signature 		3. Title Federal Registration Specialist			
4. Typed Name J. Evelyn Lawson		5. Date January 27, 2017			

Receipt for Section 3

S: 998202 Milestone Email: CTCPSERC@Clorox.com

Regulatory Type: Product Registration - Section 3 Resubmission: ☐ Yes ☒ No

Application Type: Notification Fee For Service: ☐ Yes ☒ No

Company: 5813 CLOROX CO., THE

Risk Manager: Antimicrobials Division, Risk Management Team 32

Product #: 5813-114 Product Name: CLB I

Override:

Me Too Section3: Me Too Product Name:

Application Date: 27-Jan-2017 OPP Rec'd Date: 30-Jan-2017

Front End Date: 30-Jan-2017 Risk Manager Send Date: 30-Jan-2017

FFS Due Date: Negotiated Due Date:

OPP Target Date:

Fast Track: ☐ New Ingredient: ☐

Receipt Description:

Portal submission pkg. #16953. Notification of non-mandatory label changes per PRN 98-10.

Form A: ☐ Signature Date: Form B: ☐ Signature Date:

New Ingredient Request Date
New Ingredient Received Date

Receipt Content: Electronic Label

Print Letter
Enter More Information
Tracking

KS
332

GOOD PRACTICE



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Info **Comments** **Progress**

 ISB In Processing : 5813-114 S998202 2017-01-30 
Description: 5813-114 S998202 2017-01-30
From: Doc Admin
Received: 1/30/2017 10:57 AM
WorkFlow Instructions:

cd_16953_998202 : Comments

<u>Comment</u>	<u>Author</u>	<u>Date</u>
Non PRIA 332 Label Notification PM Team 32	Tran, Tiffany	1/30/2017 10:57 AM

[Add](#)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

January 31, 2017

J. Evelyn Lawson
Federal Registration Specialist
Clorox Professional Products Company
c/o PS&RC; P.O. Box 493
Pleasanton, CA 94566-0803

Subject: Notification per PRN 98-10 – Addition of two alternate brand names
Product Name: CLB I
EPA Registration Number: 5813-114
Application Date: December 28, 2016
Decision Number: 525516

Dear Ms. Lawson:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The following alternate brand names have been added to the product record:

- Clorox® Performance Bleach1
- Clorox® Germicidal Bleach3

If you have any questions, you may contact Donna Kamarei at (703)347-0443 or via email at Kamarei.donna@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Wanda J. Fuller".

Demson Fuller, Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510P)
Office of Pesticide Programs



The Clorox Company



December 28, 2016

Mr. Demson Fuller, Product Manager 32
U.S. Environmental Protection Agency
Document Processing Desk (NOTIF)
Office of Pesticide Programs -7504P
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Re: CLB I, EPA Reg. No. 5813-114
OPPs EL0823 and EL0824

Dear Mr. Fuller:

We are submitting two new alternate brand names (ABN) requests for this registration; see the submitted 8570-1 forms.

If you have any questions, please contact me at 925-368-9026 or Julie Timberman at 925-368-9043.

Sincerely,

J. Evelyn Lawson
Federal Registration Specialist
The Clorox Company
CTCPSERC@Clorox.com



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number
EL0823

Application for Pesticide - Section I

1. Company/Product Number 5813-114	2. EPA Product Manager Demson Fuller	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) CLB I	PM# 32	
5. Name and Address of Applicant (Include ZIP Code) The Clorox Company c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of Alternate Brand Name (ABN) per PR Notice 98-10: The proposed ABN is Clorox® Germicidal Bleach3. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. § 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under § 12 and § 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	
* Certification must be submitted				<input type="checkbox"/> Plastic	
If "Yes" Unit Packaging wgt. No. per container		If "Yes" Package wgt. No. per container		<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name J. Evelyn Lawson		Title Federal Registration Specialist		Telephone No. (Include Area Code) (925) 368-9026	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped)
2. Signature <i>J. Evelyn Lawson</i>		3. Title Federal Registration Specialist			
4. Typed Name J. Evelyn Lawson		5. Date December 28, 2016			



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number
EL0824

Application for Pesticide - Section I

1. Company/Product Number 5813-114	2. EPA Product Manager Demson Fuller	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) CLB I	PM# 32	
5. Name and Address of Applicant (Include ZIP Code) The Clorox Company c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of Alternate Brand Name (ABN) per PR Notice 98-10: The proposed ABN is Clorox® Performance Bleach1. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. § 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under § 12 and § 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name J. Evelyn Lawson		Title Federal Registration Specialist		Telephone No. (Include Area Code) (925) 368-9026	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Data Application Received (Stamped)
2. Signature <i>J. Evelyn Lawson</i>		3. Title Federal Registration Specialist			
4. Typed Name J. Evelyn Lawson		5. Date December 28, 2016			



The Clorox Company



January 27, 2017

Mr. Demson Fuller, Product Manager 32
U.S. Environmental Protection Agency
Document Processing Desk (NOTIF)
Office of Pesticide Programs -7504P
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Re: CLB I, EPA Reg. No. 5813-114
OPPs EL0826, EL0831

Dear Mr. Fuller:

We wish to withdraw two label notifications submitted for this registration. One notification (EL0826) was dated January 3, 2017; the other notification (EL0831) was dated January 13, 2017.

We are submitting a new notification incorporating the previous changes as well as a few new changes.

If you have any questions, please contact me at 925-368-9026 or Julie Timberman at 925-368-9043.

Sincerely,

J. Evelyn Lawson
Federal Registration Specialist
The Clorox Company
CTCPSERC@Clorox.com



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number
EL0831

Application for Pesticide - Section I

1. Company/Product Number 5813-114	2. EPA Product Manager Demson Fuller	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) CLB I	PM# 32	
5. Name and Address of Applicant (Include ZIP Code) The Clorox Company c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of non-mandatory label additions per PR Notice 98-10: see cover letter for more information.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. § 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under § 12 and § 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name J. Evelyn Lawson		Title Federal Registration Specialist		Telephone No. (Include Area Code) (925) 368-9026	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped) <div style="font-size: 2em; font-weight: bold; text-align: center;">DOCUMENTUM</div>
2. Signature <i>J. Evelyn Lawson</i>		3. Title Federal Registration Specialist			
4. Typed Name J. Evelyn Lawson		5. Date January 13, 2017			



The Clorox Company



Withdrawn

January 13, 2017

Mr. Demson Fuller, Product Manager 32
U.S. Environmental Protection Agency
Document Processing Desk (NOTIF)
Office of Pesticide Programs -7504P
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Re: CLB I, EPA Reg. No. 5813-114
OPP EL0831

Dear Mr. Fuller:

We are submitting a label notification. The changes are non-mandatory labeling changes and are highlighted, and deleted text is struck-out in red. We are moving the footnotes to the last page; it is a new section. We are updating the following items on the label:

- Add brackets around a sentence (pp. 8, 9)
- Add sentence that was inadvertently left off our last label; was required to add it per efficacy Data Evaluation record (p. 9)
- Change qualifying symbols (pp. 15, 19, 23-25, 27-28, 48, 55)
- Change word (p. 22)
- Move all footnotes to the last page (p. 55)

Thank you for reviewing the enclosed submission. If you have any questions, please contact me at 925-368-9026 or Julie Timberman at 925-368-9043.

Sincerely,

J. Evelyn Lawson
Federal Registration Specialist
The Clorox Company
CTCPSERC@Clorox.com

PROCESSING REQUEST

Reg. #: 5813-RPU

Decision #: 524562

Description: New Product Registration

Material Sent (see jacket):

☒ New CSF(s) Dated:

☐ Other:

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

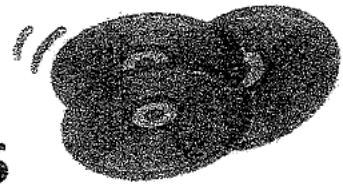
Reviewer: Donna Kamarei

Division: Antimicrobials Division

Phone: 347-0443

Date:

NEW APPLICATIONS



DATE: JUN - 9 2016

FILE REG NUMBER: 5813-R R U

FEP (OPPIN ENTRY): LV JUN 10 2016

(Initial & Date)

FILE ROOM: _____

(Initial & Date)

SIG: _____

(Initial & Date)

FILE ROOM: _____

(Initial & Date)

ASSIGN TO PM: [✓] AD 32 RD _____ BPPD _____

_____ JACKET TO SHELF (DATA)



December 14, 2016

Mr. Demson Fuller, Product Manager 32
U.S. Environmental Protection Agency
Office of Pesticide Programs -7504P
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Re: CLB I, EPA File Symbol. 5813-RRU

Dear Mr. Fuller:

EPA and Clorox have agreed upon a resolution plan for the data outages noted for the following uses:

- Emergency Drinking Water
- Livestock Drinking Water
- Pool Treatment
- Fruit and Vegetable Sanitization

EPA will approve the pending 5813-RRU master label that includes these uses, provided Clorox commits to generate and provide the data to support these uses.

Clorox accepts the following conditions:

- Clorox commits to meeting with EPA in early January. This meeting will give Clorox an opportunity to seek feedback on test details. This meeting also serves as an opportunity for Clorox and EPA to align on a test plan.
- Short-term studies will be conducted to support all four uses, under the plan that Clorox and EPA agrees upon in early January. Study reports will be sent to EPA as early as possible and no later than six months from now: June 14, 2017.
- For long-term studies, such as the swimming pool field testing, interim reports will be submitted to provide progress updates.

Sincerely,

Julie Timberman
Associate Research Fellow
The Clorox Company



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

5813-114

Date of Issuance:

12/15/16

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

CLB I

Name and Address of Registrant (include ZIP Code):

J. Evelyn Lawson
Clorox Professional Products Company
c/o PS&RC – P.O. Box 493
Pleasanton, CA 94566

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.

Signature of Approving Official:

Demson Fuller, Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510P)
Office of Pesticide Programs

Date:

12/15/16

3. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, "EPA Reg. No. 5813-114."

4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

5. Because you have opted to add statements pertaining to emerging viral pathogens to your label as described in the August 19, 2016, Guidance To Registrants: Process For Making Claims Against Emerging Viral Pathogens Not On EPA-Registered Disinfectant Labels ("Guidance"), https://www.epa.gov/sites/production/files/2016-09/documents/emerging_viral_pathogen_program_guidance_final_8_19_16_001_0.pdf, you are subject to the following additional terms of registration:

1. You may make statements pertaining to emerging viral pathogens only through the following communications outlets: technical literature distributed exclusively to health care facilities, physicians, nurses and public health officials, "1-800" consumer information services, social media sites and company websites (non-label related). These statements shall not appear on marketed (final print) product labels.
2. Your statements pertaining to emerging viral pathogens must adhere to the format approved on the Agency-accepted master label.
3. You may make statements pertaining to emerging viral pathogens only upon a disease outbreak that meets all the following criteria:
 - a. The causative organism must be a virus that causes an infectious disease that has appeared in a human or animal population in the U.S. for the first time, or that may have existed previously but is rapidly increasing in incidence or geographic range.
 - i. For human disease, the outbreak is listed in one of the following Centers for Disease Control (CDC) publications:
 - A. CDC Current Outbreak List for "U.S. Based Outbreaks" (www.cdc.gov/outbreaks)
 - B. CDC Current Outbreak List for "Outbreaks Affecting International Travelers" with an "Alert" or "Advisory" classification (www.cdc.gov/outbreaks) (also released through the CDC's Health Alert Network (HAN) notification process)
 - C. Healthcare-Associated Infections (HAIs) Outbreaks and Patient Notifications page (www.cdc.gov/hai/outbreaks)
 - ii. For animal disease, the outbreak is identified as an infectious disease outbreak in animals within the U.S. on the World Organization for Animal Health (OIE) Weekly Disease Information page (www.oie.int/wahis_2/public/wahid.php/Diseaseinformation/WI).

- b. The CDC or OIE has identified the taxonomy, including the viral family and/or species, of the pathogen and provides notice to the public of the identity of the emerging virus that is responsible for an infectious disease outbreak. Based on the taxonomy of the outbreak pathogen identified by the CDC or OIE, the pathogen's viral subgroup is [small non-enveloped, large non-enveloped, enveloped].
 - c. The virus can be transmitted via environmental surfaces (non-vector transmission), and environmental surface disinfection has been recommended by the CDC, OIE or EPA to control the spread of the pathogen.
4. You may begin communicating statements pertaining to emerging viral pathogens only upon CDC or OIE's publication per term 3(a) of an outbreak of an emerging viral pathogen meeting all of the criteria of term 3. You must cease and remove all such non-label communications intended for consumers no later than 24 months after the original publication of the outbreak per term 3(a), unless the Agency issue written guidance to the contrary due to continued public health concerns. The emerging pathogen claim language may remain on the master label.

Terms 1 through 4 above shall become immediately void and ineffective if registration for use against emerging small non-enveloped, large non-envelope and envelope viruses listed in the labeling are suspended or cancelled or no longer meets the criteria for a disinfectant claim (see EPA Product Performance Test Guideline 810.2200). In addition, terms 1 through 4 above shall become immediately void and ineffective upon your receipt of evidence of ineffectiveness against any pathogen in a less-resistant Spaulding category.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.


If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 6/2/2016
- Alternate CSF 1 dated 6/2/2016

If you have any questions, you may contact Donna Kamarei at (703)347-0443 or via email at Kamarei.donna@epa.gov.

Page 4 of 4
EPA Reg. No. 5813-114
Decision No. 524562

Sincerely,

A handwritten signature in black ink, appearing to read 'DF', with a long horizontal stroke extending to the right.

Demson Fuller, Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure

CLB I

**KEEP OUT OF REACH OF CHILDREN
DANGER: CORROSIVE.**

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. **IF ON**

SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

IN EITHER CASE, CALL A POISON CONTROL CENTER OR DOCTOR IMMEDIATELY FOR TREATMENT ADVICE.

See back panel for additional precautionary labeling.

ACTIVE INGREDIENT:

Sodium Hypochlorite 6.05%

OTHER INGREDIENTS: 93.95%

TOTAL: 100.00%

(Yields 5.75% available chlorine)

Contains no phosphorus

NET CONTENTS _____

ACCEPTED

12/15/2016

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under

EPA Reg. No. **5813-114**

PRECAUTIONARY STATEMENTS: Hazards to humans and domestic animals.

DANGER: CORROSIVE.

Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear safety glasses -or- protective eyewear and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet -or- restroom. Avoid breathing vapors and use only in a well ventilated area. [Remove and wash contaminated clothing before reuse.]

[Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.]

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **IF SWALLOWED:** Have person sip a glassful of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

Call a poison control center or doctor immediately for further treatment advice. Have product container or label with you when calling a poison control center or doctor, or going for treatment. Clorox Information Line: 1-800-292-2200.

PHYSICAL OR CHEMICAL HAZARDS: Product contains a strong oxidizer. Always flush drains before and after use. **Do not use or mix with other [household] chemicals**, such as toilet bowl cleaners, rust removers, acids or products containing ammonia. To do so will release hazardous irritating gases. [Prolonged contact with metal may cause pitting or discoloration.]

For containers 5 gallons and greater:

ENVIRONMENTAL HAZARDS: This product is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

For use with 4 to 6 gallon buckets/containers as defined in the ASTM standard; see Child Hazard Drowning Pictogram text below:

NOTICE: CHILDREN CAN FALL INTO BUCKET AND DROWN. KEEP CHILDREN AWAY FROM BUCKET WITH EVEN A SMALL AMOUNT OF WATER.



For containers less than 5 gallons:

ENVIRONMENTAL HAZARDS: This product is toxic to fish, aquatic invertebrates, oysters and shrimp.

(Household/Residential uses; 16 fl oz, 30 fl oz, 64 fl oz, 121 fl oz)

STORAGE AND DISPOSAL: Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. Do not contaminate food or feed by storage, disposal or cleaning of equipment. **PRODUCT**

DISPOSAL: Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer. **CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Recycle empty container or discard in trash.

(Professional/Institutional uses - including labels intended for restaurants, medical facilities, daycare facilities; 121 fl oz):

STORAGE AND DISPOSAL: Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Do not contaminate food or feed by storage, disposal or cleaning of equipment. **PRODUCT DISPOSAL:** Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer. **CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. [Triple rinse container (or equivalent) promptly after emptying.] Recycle empty container or discard in trash.

(Professional/Institutional uses -For use with containers greater than 5 gallons):

STORAGE AND DISPOSAL: Do not contaminate food or feed by storage and disposal of this product. **STORAGE:** Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water before discarding this container in trash.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the EPA Regional Office for guidance.

(nonrefillable container)

CONTAINER HANDLING AND DISPOSAL: Nonrefillable container. Do not re-use or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty remaining contents from this container into mix tank. Pressure rinse container thoroughly. Empty rinsate into mix tank for dilution before disposal into sanitary sewer. Repeat pressure rinse procedure two more times. Recycle empty container or discard in trash. Do not contaminate food or feed by storage and disposal of this product.

(refillable container)

CONTAINER HANDLING AND DISPOSAL: Refillable container. Refill container with this product only. Do not reuse this container for any other purpose. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container prior to final disposal, empty remaining contents from this container into mix tank. Pressure rinse container thoroughly. Empty rinsate into mix tank for dilution before disposal into sanitary sewer. Repeat pressure rinse procedure two more times. Recycle empty container or discard in trash. Do not contaminate food or feed by storage and disposal of this product.

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Company Information

Satisfaction Guaranteed

Satisfaction Guaranteed! At Clorox, we have prided ourselves in making consistent quality bleach for [over] 100 years, and we are dedicated to ensuring your total satisfaction with our product. If you are not completely satisfied, please call the number below.

Clorox Customer Assistance (800) 292-2200

Any Questions? The experts at Clorox are standing by to answer any of your laundry or household cleaning questions.

"Clorox" is a registered trademark of The Clorox Company.
Commercial Solutions is a registered trademark of The Clorox Company -or- Clorox Professional Products Company.
Bottle shape is a registered trademark of the Clorox Company.

[Visit -or- Check [out] our website at] www.clorox.com
[for more information] [on Clorox®] -or-
Visit us at www.clorox.com -or- www.cloroxhome.com
For more product ingredient information, visit
www.IngredientsInside.com.

For SDS information, please visit **insert website**.

Questions [? -or- or] Comments? or
Call [Toll Free] (888) 797-7225 -or- (800) 227-1860 -or-
1-800-292-2200 -or- **insert toll free number**.

Write us at:

Clorox Consumer Services
P.O. Box 24305
Oakland, CA 94623

EPA Reg. No. 5813-XXX

EPA Est. No. 5813-CA-3 (A8), CA-6 (TPP), GA-1 (A4), GA-2 (VG),
IL-12 (VF), MD-2 (E6), TX-1 (A5); 71681-IL-2 (03), IL-2 (24)
Beginning of batch code indicates Est. No.
U.S. Pat. Nos. 8,993,505 and 9,012,389

For Puerto Rico only

EPA Est. No. 5813-PR-1

Mfd. for & © YYYY The Clorox Company

1221 Broadway, Oakland, CA 94612

Made in [the] U.S.A. [of global components -or- ingredients]

For Puerto Rico only

Ave. Chardon, #350, Torre Chardon, Suite 325, San Juan, PR 00918.

Made in Puerto Rico [of global components -or- ingredients]

Packaging Related Statements and Graphics

Closure Directions for Use:

to be molded into the Child-Resistant Cap

Squeeze -or- Press -or- Pinch -or- Push -or- Depress -or- Grasp -or- Force -or- Pressure -or- Crush [Sides] and -or- & Lift [Up] -or- Pull [Up] -or- Raise [Up] -or- Tilt [Up] -or- Pick Up -or- Elevate

-or-

Push -or- Thrust -or- Drive -or- Ram -or- Move -or- Force and -or- & Twist -or- Wind -or- Coil -or- Curl -or- Twirl -or- Bend -or- Rotate -or- Turn -or- Screw -or- Wrench

- [This product] will not cause damage to -or- is safe for septic and waste water systems [when used as directed.]



See how to use -or- [[Use your phone to] go here -and/or- scan [[the] tag -or- [this] code] to learn -or- get -or- see [more] uses -or- information [on how-to-use [**This Product**] -or- [how-to] tips -or- [how-to [-use]] videos] -or- Scan here [to learn how to use] -or- [to learn more] -or- [for simple -or- easy instructions]][(Data rates may apply)]



For carton: Carton made with ___% recycled paperboard, minimum ___% post-consumer. -or- This packaging material contains at least ___% post-consumer recycled paper.

DIRECTIONS FOR USE

[WHERE TO USE: -or- WHERE DO I USE **THIS PRODUCT?**]

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

[DO NOT use this product full strength for cleaning surfaces. Always dilute strictly in accordance with the directions. For prolonged use, wear gloves.]

[Always refer to manufacturer's care instructions before using on equipment -or- devices.]

All directions may be written in numbered form or in paragraph form.

[Use the Dilution Table to make the desired dilution]. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.]

[This product can be used on hard, nonporous surfaces in commercial -and/or- institutional -and/or- hospital -and/or- household premises (including kitchens -and/or- bathrooms -and/or- nurseries -and/or- sick rooms -and/or- laundry rooms) -and/or- eating establishments -and/or- pet kennels -and/or- veterinary premises.]

This statement only to be used on institutional labels with medical use sites and/or bloodborne pathogens.

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semicritical medical devices prior to sterilization or high level disinfection.

	[Amount [of]] this product -or- bleach	[Amount [of]] water	Instructions
[For] Laundry [Use] [Bleaching -and/or- Brightening -and/or- Whitening -and/or- Stain Removal] -or- [To Bleach -and/or- Brighten -and/or- Whiten -and/or- Remove Stains]			
Bleachable Fabrics	1/2 cup [4 oz] or Max[imum] line -or- level [in dispenser]	Standard [Machine] or HE -or- High Efficiency Machine	[1.] Sort laundry by color. [2.] Add detergent. [3.] Fill bleach to max[imum] line -or- level [in dispenser] -and/or- add [1/2 cup -or- measured [amount of]] bleach to [dispenser or] wash water. Ensure contact with bleach [solution] for 10 min[utes]. [4.] Add clothes [and start wash].
	[1 cup] [8 oz]	[Extra Large Washer -or- Heavily Stained -or- Soiled Load]	[For best results[, dilute bleach with a quart of water and] add to wash 5 min[utes] after the wash cycle has begun.] Ensure contact with bleach [solution] for 10 min[utes]. [Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors.]
[For] Sanitizing -or- To Sanitize food contact surfaces			
Food contact [Work] Surfaces	2 tsp [1/3 oz]	1 Gal[lon]	Wash, rinse, wipe surface area with bleach solution for [at least] 2 min[utes], let air dry. -or- To sanitize work surfaces, wash, rinse and wipe surface area with a solution of 2 teaspoons of bleach per 1 gallon of water for [at least] 2 min[utes]. Let air dry.
Dishes, Glassware, Utensils	2 tsp [1/3 oz]	1 Gal[lon]	Wash and rinse. [After washing,] soak for [at least] 2 min[utes] in bleach solution, [drain] and [let] air dry. -or- To sanitize dishes, glassware, and utensils, wash and rinse. [After washing,] soak for [at least] 2 min[utes] in a solution of 2 teaspoons of bleach per 1 gallon of water, [drain] and air dry.

	[Amount [of]] this product -or- bleach	[Amount [of]] water	Instructions
[For] Sanitizing -or- To Sanitize food contact surfaces continued			
Plastic Cutting Boards	2 tsp [1/3 oz]	1 Gal[lon]	Wash and rinse. [After washing,] soak for [at least] 2 min[utes] in bleach solution, let air dry.
Baby Bottles	2 tsp [1/3 oz]	1 Gal[lon]	Wash and rinse. [After washing,] soak for [at least] 2 min[utes] in bleach solution, let air dry.
Pet [Food -and/or- Water] Bowls	2 tsp [1/3 oz]	1 Gal[lon]	Wash and rinse. [After washing,] soak for [at least] 2 min[utes] in bleach solution, let air dry.
Refrigerators, Freezers	2 tsp [1/3 oz]	1 Gal[lon]	Remove food [from refrigerator -and/or- freezer]. Wash, rinse, wipe surface area with bleach solution for [at least] 2 min[utes]. Let air dry.
[For] Sanitizing -or- To Sanitize non-food contact surfaces			
Garbage Cans -and/or- Diaper Pails	1/2 cup [4 oz]	3/4 Gal[lon]	After washing and rinsing, brush inside with bleach solution. Let stand for 2 min[utes] before rinsing.
[For] [Laundry, Cleaning and] Sanitizing -or- To [Clean and] Sanitize [Laundry]			
Laundry -or- Bleachable Fabrics	2/3 cup [5.3 oz] 1/3 cup [2.7 oz]	Standard Machine HE -or- High Efficiency Machine	[1.] Sort laundry by color. [2.] Add detergent. [3.] Fill bleach to max[imum] line -or- level [in dispenser] -and/or- add [measured amount of] bleach to [dispenser or] wash water. [4.] Add clothes [and start wash]. [Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors. Use [with] a detergent.]
[For] Disinfecting [& Deodorizing] -or- To Disinfect [& Deodorize] Hard, Nonporous Surfaces			
<i>Insert relevant use site(s) from List 5</i>			
[To Kill -or- Kills -or- For [99.9% of] [[these] common household germs]:] <i>Insert relevant organisms from List 2A</i>	1/2 cup [4 oz]	1 Gal[lon]	[Pre-]wash surface, [mop or] wipe with bleach solution[. Allow solution to contact surface] for [at least] 5 min[utes]. Rinse well and air dry. -or-
[To [Also] Kill -or- [Also] Kills -or- For [99.9% of] [[these] additional organisms -or- bacteria -and/ or- viruses -and/or- fungi]] -or- For <i>insert relevant organisms from List 2B</i>	1/2 cup [4 oz]	3/4 Gal[lon]	To disinfect <i>insert relevant use site(s) from List 5</i> , pre-wash surface, then mop or wipe with a bleach solution. Allow solution to contact surface for [at least] 5 min[utes]. Rinse well and air dry. <i>Include the following statement if any of the organisms are listed on the label:</i> Canine parvovirus and Feline panleukopenia virus -or- feline parvovirus let stand for -or- contact time is 10 min[utes].
Toilet Bowl	1/2 cup [4 oz]	Toilet Bowl	Flush toilet. Pour this product into bowl. Brush bowl, making sure to get under the rim, let solution stand for 5 min[utes] flush again. -or- To disinfect a toilet bowl, flush the toilet. Pour 1/2 cup of bleach into the bowl. Brush bowl, making sure to get under the rim, let solution stand for 5 min[utes] and flush again.

	[Amount (of)] this product -or- bleach	[Amount (of)] water	Instructions
[For] Mold [Stain] and Mildew [Stain] Removal -or- To Remove Mold and Mildew [Stains]			
Hard, nonporous Surfaces	3/4 cup [6 oz]	1 Gal[lon]	[Pre-]wash surface [and] wipe with bleach solution[. Allow solution to contact surface] for at least 10 min[utes]. Rinse well and air dry.
[For] Deodorizing -or- To Deodorize			
Garbage Cans -and/or- Diaper Pails	1/2 cup [4 oz]	1 Gal[lon]	After washing and rinsing, brush inside with bleach solution. Let drain.
Drains	1/2 cup [4 oz]	—	Flush drains. Pour into drain. Flush with hot water.
[For] Bleaching -and/or- Whitening -or- To Bleach -and/or- Whiten			
Wooden Surfaces	1/2 cup [4 oz]	3/4 Gal[lon]	Apply for [at least] 2 min[utes], rinse [and air dry].
[For] Killing Clostridium difficile^y [(C. diff)] [spores]:			
For Killing Clostridium difficile ^y [(C. diff)][spores]:	1 part	6 parts	Clean hard, nonporous surfaces by removing gross filth [(loose dirt, debris, blood/bodily fluids, etc.)]. Apply 1:7 solution (~8200 ppm available chlorine) and let stand for 5 min[utes]. Rinse and air dry. Prepare fresh solution daily.
[For] Killing TB -or- To Kill TB -or- To Kill Mycobacterium bovis [(BCG)], (TB)			
[For] Killing TB -or- To Kill TB -or- To Kill Mycobacterium bovis [(BCG)], (TB)	1 part	7 parts	Preclean surface prior to disinfection. Add 1 part bleach to 7 parts water to achieve a 1:8 dilution (7200 ppm available chlorine) before use. Apply 1:8 solution and let stand for 10 min[utes] at room temperature (19° C -or- 66.2°F) -or- (18 to 20° C -or- 64.4°F to 68°F). Rinse and air dry. Prepare fresh solution daily.
[For] Hospital -and/or- Healthcare Use -or- Disinfection: -or- To Kill Pseudomonas aeruginosa:			
	Use 1/2 cup of this product per gal[lon] of water. [Pre]wash surface -or- item, then apply disinfecting -or- bleach solution. Let stand 5 min[utes]. Rinse [thoroughly -or- well] and air dry. -or- Follow Disinfection Directions for use.		

⚠️ Follow [the] Special Instructions for Cleaning Prior to Disinfection [listed on label]

[For additional directions for use, including Service Bulletins, visit www.Insert Website.com]. **Note to reviewer: only approved language from the most recently approved federal master label will be posted to the website.**

For more tips -and/or- uses, visit www.Insert Website.com **Note to reviewer: only approved uses from most recently approved federal master label will be posted to the website.**

DILUTION TABLE: PPM (Parts Per Million Available Chlorine).

Degrades with age and exposure to sunlight and heat. Check the level of available chlorine with a test kit.

1/3 oz this product (2 tsp)	+ 1 Gallon Water	= 150 ppm
[(Equivalent performance to 200 ppm [[test] standard] for food contact surface sanitization)]		
4 oz this product (1/2 cup)	+ 1 Gallon Water	= 1800 ppm
4 oz this product (1/2 cup)	+ 3/4 Gallon Water	= 2300 ppm

Laundry Use:

-or- For Laundry: -or- For Bleachable Fabrics:

[For] Standard & HE -or- High Efficiency Machines

[If uncertain about the dye colorfastness, test fabric by applying 1 drop of a solution made of 2 teaspoons of this product plus 1/4 cup water to hidden part of seam. Be sure to check all colors. After 1 min[ute], rinse and blot dry. No color change means the article can be safely bleached.]

[Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors.]

Whitening -and/or- Stain Removal:

[Whitening -and/or- Brightening -and/or- Stain Removal:]		
Dose -or- Load	Standard [Machine]	HE -or- High Efficiency [Machine]
Normal -or- Regular	1/2 cup	Max[imum] line -or- level [in dispenser]
Heavy -or- Heavily Soiled -and/or- Stained	1 cup	Max[imum] line -or- level [in dispenser]

1. Sort laundry by color.
2. Add detergent.
3. Fill bleach to max[imum] line -or- level [in dispenser] -and/or- add [measured
[amount of]] bleach to [dispenser or] wash water.
4. Add clothes[, and start wash].

[For best [laundry] results, [dilute measured [amount of] of this product in 1 quart of water.] Add to wash 5 min[utes] after the wash cycle has begun.]

[To handwash, pretreat stains and clean heavy soils, rinse to remove loose soil and fully soak each garment for 5 min[utes] in a solution of 1/4 cup of this product to 1 gallon of cool water. Rinse and perform a regular wash following the laundry use directions.]

[For HE Machines, follow HE machine usage instructions.]

Sanitization:

To sanitize laundry: Add 2/3 cup of this product to a standard washer or 1/3 cup to an HE -or- High Efficiency washer following the laundry use directions.

-or-

To kill 99.9% of bacteria -or- ***insert organisms from List 1*** in your laundry: Add 2/3 cup of this product to a standard washer or 1/3 cup to an HE -or- High Efficiency washer following the laundry use directions.

-or-

FOR USE WITH *Insert Dispenser Name* APPROVED DISPENSING SYSTEM. Installation and service should only be performed by a *Company Name* Laundry Expert.

To Sanitize Laundry: Add enough of this product to reach 160 ppm (parts per million) available chlorine. [Use the Dilution Table to make the desired dilution]. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Use a detergent. This product used according to the laundry use directions is effective against *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Klebsiella pneumoniae*, and Methicillin Resistant *Staphylococcus aureus* [(MRSA)].

Laundry Use: continued

High Efficiency Washing Machine Maintenance:

[HE] Washing machine manufacturers suggest that you must perform periodic machine maintenance up to once per week, to ensure that your HE washer remains clean and free from any soil build-ups that may cause malodors.

-or-

[HE] [Washing machine] manufacturers suggest [that] a periodic machine maintenance is performed [up to once per week] to prevent [soil build-ups that may cause] malodors. Some HE washers offer a special maintenance [or wash-out -or- clean washer] cycle. Check [the use and care guide] to see if your machine has one. If it does, follow the manufacturer's suggestions.

-or-

If your HE washer has a maintenance [or wash-out -or- clean washer] cycle, follow the manufacturer's recommendations. If your HE washer doesn't have a [-or- an automated] maintenance cycle, you may perform this function manually:

[[Note:] Do not put laundry in the washer.]

1. Select the hot water setting. [If there is no hot water setting, then select a "white" or a "stain" cycle setting.]
2. Select the "extra rinse" option[, if offered].
3. Add this product to the bleach dispenser. Fill to its -or- the maximum level.
4. Run the cycle [through [its] completion].
5. If the HE washer does not have a second rinse option, manually select an additional rinse cycle to ensure that no bleach remains in your -or- the washer.
6. If your -or- the HE washer still has unpleasant odors, [you may need to] repeat steps 1 through 5 [as necessary].

-or-

1. Use hot water.
2. Select "extra rinse" option.
3. Add this product to the bleach dispenser. Fill to its -or- the maximum level.
4. Run the cycle.
5. Follow with extra rinse [to ensure that no bleach remains [in your washer] -or- is left behind].
6. Repeat steps 1-5 [as necessary] [if your [HE] machine still has unpleasant odors].

Household/Commercial/Institutional Use:

[DO NOT USE ON NON-STAINLESS STEEL, ALUMINUM, SILVER OR CHIPPED ENAMEL.]

DO NOT use this product full strength for cleaning surfaces. Always dilute strictly in accordance with the directions. For prolonged use, wear gloves.

For Use on Hard, Nonporous Surfaces -or- *insert items from List 5: Hard, Nonporous Use Sites*

Disinfection Directions for Use:

[For] Disinfecting:

-or-

To disinfect hard, nonporous surfaces -or- *insert items from List 5: Hard, Nonporous Use Sites:*

Use 1/2 cup of this product per 1 -or- 3/4 gallon of water. [Pre]wash surface -or- item, then apply disinfecting -or- bleach solution. Let stand 5 min[utes]. Rinse [thoroughly -or- well] and air dry.

-or-

1. [Pre]wash surface -or- item.
2. Mix 1/2 cup this product -or- bleach per 1 -or- 3/4 gallon water.
3. Apply, let stand 5 min.
4. Rinse, [and] air dry.

[For] Toilet Bowls -and/or- bidets:

Flush toilet -and/or- Bidet. Pour 1/2 cup of this product into bowl. Brush entire bowl including rim with a scrub brush or mop. Let stand 5 min[utes] before flushing again.

[For] Potty Seats -or- Trainers:

Empty seat. Fill with 1/2 cup of this product per gallon of water. Let stand 5 min[utes]. Rinse and air dry.

[For] Litter Boxes:

Remove litter. Wash box in soap and water. Fill with 1/2 cup of this product per gallon of water. Let stand 5 min[utes]. Rinse and air dry.

[For Feline Parvovirus or Canine Parvovirus use 1/2 cup of this product per 3/4 gallon of water. Let stand for 10 min[utes].]

[For] Mold and Mildew:

Use 3/4 cup of this product per 1 gallon of water. Wash, wipe, or rinse items with water, then apply disinfecting -or- bleach solution. Let stand 10 min[utes]. Rinse and air dry.

YSPECIAL LABEL INSTRUCTIONS FOR CLEANING PRIOR TO DISINFECTION AGAINST CLOSTRIDIUM DIFFICILE ENDOSPORES

Personal Protection: Wear appropriate barrier protection such as gloves, gowns, masks and eye covering.

Cleaning Procedure: Fecal matter/waste must be thoroughly cleaned from surfaces/objects before disinfection by application with clean cloth, mop, and/or sponge saturated with product intended for disinfection. Cleaning includes vigorous wiping and/or scrubbing, until visible soil is removed. Special attention is needed for high-touch surfaces. Clean the surfaces in patient rooms in an appropriate manner [(for example right to left)], with restrooms cleaned last. Do not reuse soiled cloths. **Infectious Materials Disposal:** Cleaning materials used that may contain feces/wastes must be disposed of immediately in accordance with local regulations for infectious materials disposal.

[FOR] KILLING CLOSTRIDIUM DIFFICILE^Y [SPORES]:

Add 1 part bleach to 6 parts water to achieve a 1:7 dilution (~8200 ppm available chlorine) before use. Clean hard, nonporous surfaces by removing gross filth [loose dirt, debris, blood/bodily fluids, etc.]. Apply 1:7 solution and let stand for 5 min[utes]. Rinse and air dry. Prepare fresh solution daily. [Avoid contact with surfaces that may be damaged by bleach.] Do not use on non-stainless steel, aluminum, silver, or chipped enamel.

[FOR] KILLING TB -OR- TO KILL TB -OR- TO KILL MYCOBACTERIUM BOVIS [(BCG)], (TB) -OR- TUBERCULOCIDAL EFFICACY:

Preclean surface prior to disinfection. Add 1 part bleach to 7 parts water to achieve a 1:8 dilution (7200 ppm available chlorine) before use. Apply 1:8 solution and let stand for 10 min[utes] at room temperature (19° C -or- 66.2°F) -or- (18 to 20° C -or- 64.4°F to 68°F). Rinse and air dry. Prepare fresh solution daily.

SPECIAL INSTRUCTIONS TO CLEAN AND DECONTAMINATE AGAINST HIV, HBV, AND HCV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS

This product kills HIV-1, HBV, and HCV on precleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings (e.g. hospitals, nursing homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), [Human] Hepatitis B Virus (HBV), and [Human] Hepatitis C Virus (HCV).

Personal Protection: When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, and eye coverings.

Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and other objects before applying this product.

Dilution and Contact time: Prepare a solution of 1/2 cup in 1 gallon of water (at least 1800 ppm available chlorine) and spray or flood surface; let stand 5 min[utes].

Disposal of infectious materials: Use disposable latex gloves, gowns, masks, and eye coverings. Blood and other body fluids must be autoclaved and disposed of according to local regulations for infectious waste disposal.

Sanitization Directions for Use:

[For] Sanitizing:

Food Contact Surfaces:

-or-

To sanitize (*insert item from List 6: Food Contact Sanitization Use Sites*):

Use 2 tsp -or- teaspoons of this product per gallon of water to prepare a 150 ppm available chlorine solution [(equivalent performance to 200 ppm [[test] standard]]]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Let stand 2 min[utes]. Air dry.

Surfaces:

-or-

To sanitize (*insert item from List 5: Hard, Nonporous Use Sites*):

Use 1/2 cup of this product per 3/4 gallon of water. Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Let stand 2 min[utes]. Air dry.

Fruit & Vegetable Washing (*commercial use only*):

Thoroughly clean all fruits and vegetables. Mix 1/2 teaspoon of this product in 1 gallon of water to make a sanitizing solution of 25 ppm available chlorine. Submerge fruit or vegetables in this sanitizing solution for 2 min[utes]. [Rinse with water, and air dry.]

Hospital Use:

[For] Hospital -and/or- Healthcare Use -or- Disinfection:

-or-

To Kill *Pseudomonas aeruginosa*:

Use 1/2 cup of this product per 1 gallon of water. [Pre]wash surface -or- item, then apply disinfecting -or- bleach solution. Let stand 5 min[utes]. Rinse [thoroughly -or- well] and air dry. -or- Follow Disinfection Directions for use.

CONSUMER USES HOUSEHOLD [HINTS -or- USES]

Clean Flower Pots and Planters:

Cleaning flower containers helps prevent the transfer of molds and diseases from old plants to new ones. Wash and [thoroughly] rinse pots and planters. Soak 5 min[utes] in a solution of 1/2 cup of this product to 3/4 gallon of water, then rinse.

Cold & Flu: [[To] Prevent the Spread of Cold & Flu Viruses†† -or- [To] Kill [the] Flu Virus† [on treated Hard, Nonporous Surfaces]:]

This product kills [99.9% of] common household germs to help prevent the spread of germs in high traffic areas and children's items. Disinfect cribs, high chairs, and washable colorfast hard, nonporous toys quickly and easily with this product: Wash, wipe or rinse items with water. -or- Prewash items[.] [then] disinfect with a solution of 1/2 cup of this product per 1 gallon -or- 3/4 gallon of water. Let stand 5 min[utes]. Rinse thoroughly and air dry.

Deodorizing Cat's Litter Box:

Unpleasant cat box odors can be eliminated when this product is used to kill odor-causing germs. Wash litter box with sudsy water and rinse. Then wipe with a solution of 1/2 cup of this product per gallon of water. Let solution stand 5 min[utes] before rinsing thoroughly.

Disinfecting Baby Furniture and Hard, Nonporous Toys -or- Hard, Nonporous Kid's Toys:

Painted and enameled cribs, changing tables and high chairs, plastic mattress covers and bumpers, and washable colorfast hard, nonporous toys are disinfected quickly and easily with this product. Plus, this product kills [99.9% of] common household germs, including those that cause odors. This product leaves baby's room clean and fresh smelling. Disinfect with a solution of 1/2 cup product in 1 gallon -or- 3/4 gallon of water. Let stand 5 min[utes]. Rinse and allow to [air] dry. -or- For washable colorfast hard, nonporous toys, disinfect with a solution of 1/2 cup bleach in 1 gallon -or- 3/4 gallon of water. Let stand 5 min[utes]. Rinse and allow to [air] dry.

Disinfect Pet Areas -and/or- Nonporous Toys -and/or- Accessories

This product can disinfect your pet areas -and/or- nonporous toys -and/or- accessories. Disinfect with a solution of 1/2 cup product in 3/4 gallon of water. [Pre-]wash surface, soak or wipe with bleach solution[. Allow solution to contact surface] for at least 5 min[utes]. Rinse well and air dry. For Feline Parvovirus -and/or- Canine Parvovirus allow solution to contact surface for 10 min[utes].

Eliminating Garbage Can -and/or- Diaper Pail Odors:

This product can deodorize and sanitize your garbage cans -and/or- diaper pail by eliminating the bacteria that cause odors. Wash garbage cans -and/or- diaper pail with soapy water and rinse. Then to deodorize and sanitize, swish a solution of 1/2 cup of this product per 3/4 gallon of water over the inside of the can. Let the solution stand 2 min[utes] before rinsing.

Eliminating Refrigerator Odors:

This product kills odor causing bacteria and leaves your refrigerator smelling fresh and clean. Use it inside and out. Remove food before using this product. Wash surfaces with a solution of 1/2 cup of this product per gallon of water. Let stand 5 min[utes]. Rinse and then air dry interior surfaces a few min[utes] before replacing food.

Keep Christmas Trees Fresher Longer:

To prolong the life of a fresh cut tree, instead of using plain water in the tree stand bowl, use a solution of 2 tsp product per 1/2 gallon hot water, 1 cup corn syrup and 1/8 cup powdered chelated iron (available from local nurseries).

Keep Cut Flowers Fresh Longer:

Fresh cut flowers will stay beautiful longer if you add 1/4 teaspoon of this product to each quart of cold water. This product can also be used to remove flower vase stains and odors. Wash the vase thoroughly and then fill with a solution of 1/2 cup bleach to (1) gallon water. Let stand 5 min[utes] before rinsing.

Keep Wading Pools Sanitary:

As a general rule, use 1/8 cup per 100 gallons of water. For example, an 8-foot diameter pool holding 1 foot of water would require 1/2 cup of this product. To chlorinate, mix required amount of bleach with 2 gallons of water and scatter over surface of empty pool. Fill remainder of pool with water. Empty small pools daily.

Kitchen and Bathroom:

Clean, disinfect and deodorize sinks, countertops, bathtubs, showers, floors, vinyl and glazed tile.

- 1) Wash, wipe or rinse items with water.
- 2) Apply disinfecting solution of 1/2 cup of this product per 1 gallon -or- 3/4 gallon of water.
- 3) Let stand 5 min[utes] before rinsing.
- 4) Rinse thoroughly and air dry.

†Influenza A virus

††Rhinovirus [Type 37] and Influenza A virus

Removing Exterior Mold Stains:

Mold stains on colorfast exterior surfaces of your home, like siding, tile roofs, sealed brick, stucco and patio stone can be easily removed using this product. First, hose surfaces to remove loose soil. Then apply a solution of 3/4 cup of this product -or- bleach per 1 gallon of water to wet surfaces. Reapply the solution as needed to keep the area wet for 10 min[utes]. Rinse thoroughly to remove residue. [Avoid applying solution in direct sunlight or to unfinished wood.] Rinse quickly and thoroughly if solution comes in contact with aluminum window frames or gutters since metal corrosion may occur.

Removing Mold and Mildew:

[Mold and mildew in the bathroom can be removed easily and effectively using this product.] Simply wipe down surfaces using a solution of 3/4 cup of this product to 1 gallon of warm water. Keep surface wet 10 min[utes]; then rinse thoroughly and wipe dry. Repeat, if necessary, on heavily soiled surfaces.

Removing Patio Moss and Mildew Stains:

Protect nearby plants and grass by watering area thoroughly before and after product use. Patio moss and mildew stains can be unsightly, slippery and dangerous. Hose patio to remove loose debris. Then use this product to remove moss and mildew stains by washing the area with a solution of 3/4 cup of this product to 1 gallon of water. Reapply the solution as needed to keep the area wet for 10 min[utes]. Brush as needed to remove moss and then rinse thoroughly. [Do not use on painted wood.] Avoid excessive runoff near plants.

Sanitize and Remove Stains from Kitchenware:

Tough stains can be removed from china, dinnerware, dishes, plastic and glassware with this product. Plus, this product sanitizes as it cleans. Wash items thoroughly as you normally would. Then soak for 2 min[utes] in a solution of 2 tsp of this product to each gallon of water. Then drain and air dry.

Sanitize Pet's Food and Water Bowls -or- Pet Bowl:

To sanitize pet food containers, wash bowls with detergent and rinse. Fill bowls with a solution of 2 tsp of this product -or- bleach per gallon of water. Let stand 2 min[utes], drain and air dry.

Sanitizing Baby Items:

Baby bottles, nipples and dishes can be easily sanitized using this product. Soak washed items for 2 min[utes] in a solution of 2 tsp of this product per gallon of water. Pour solution through nipples; then drain dry.

Spring Cleaning: [(For) Eliminating Bacteria that Cause Household Odors:]

Sanitize and deodorize common household items, such as sinks, garbage cans, diaper pails and refrigerators by eliminating the bacteria that cause odors.

Sinks:

Wash, wipe or rinse items with water. Apply solution of 1/2 cup of this product per 3/4 gallon of water. Let stand 2 min[utes] before rinsing. Rinse thoroughly and air dry.

Garbage cans -and/or- Diaper pails:

Wash garbage cans -and/or- diaper pails with soapy water and rinse. Swish a solution of 1/2 cup of this product per 3/4 gallon of water over the inside of the can. Let the solution stand 2 min[utes] before rinsing.

Refrigerators:

Remove food before using this product. Wash surfaces with a solution of 2 tsp of this product per gallon of water. Let stand 2 min[utes]. Rinse thoroughly and then air dry interior surfaces a few min[utes] before replacing food.

Toilet Bowls:

Disinfect and deodorize your toilet.

- 1) Flush toilet.
- 2) Pour 1/2 cup of this product into bowl.
- 3) Brush entire bowl, including rim, with a scrub brush or mop.
- 4) Let stand 5 min[utes] before flushing again.

List 1: Laundry Sanitization Organisms	
Bacteria	ATCC and/or Strain
Klebsiella pneumoniae	[ATCC 4352]
Methicillin Resistant Staphylococcus aureus [(MRSA)]	[ATCC 33592]
Pseudomonas aeruginosa	[ATCC 15442]
Staphylococcus aureus [(Staph)]	[ATCC 6538]
List 2A: Hard, Nonporous Surface Disinfection Organisms [Organisms for] [1/2 cup per [1] gallon water dilution -or- dosing [organism list]] (5 min[utes] contact time)	
Bacteria	ATCC and/or Strain
Bordetella pertussis	[ATCC 12743]
Campylobacter jejuni	[ATCC 29428]
Carbapenem Resistant Escherichia coli	[CDC 81371]
Enterococcus faecalis	[ATCC 29212]
Escherichia coli O157:H7 [(E. coli)]	[ATCC 35150]
Haemophilus influenzae	[ATCC 10211]
Klebsiella oxytoca	[ATCC 13182]
Legionella pneumophila	[ATCC 33153]
Listeria monocytogenes	[ATCC 19117]
Multi-drug Resistant Enterococcus faecium ^o	[ATCC 51559]
New Delhi Metallo-Beta Lactamase-1 (NDM-1) producing Enterobacter cloacae	[CDC 1000654]
New Delhi Metallo-Beta Lactamase-1 (NDM-1) producing Escherichia coli	[CDC 1001728]
Penicillin resistant Streptococcus pneumoniae	[ATCC 700677]
Proteus mirabilis	[ATCC 9240]
Salmonella enterica [(Salmonella)]	[ATCC 10708]
Serratia marcescens	[ATCC 14756]
Staphylococcus aureus [(Staph)]	[ATCC 6538]
Staphylococcus epidermidis [(Coagulase-negative staphylococci)]	[ATCC 12228]
Streptococcus pyogenes [(Strep)]	[ATCC 19615]
Pseudomonas aeruginosa	[ATCC 15442]
Vibrio cholerae	[ATCC 11623]
Yersinia enterocolitica	[ATCC 23715]

[^oThis strain of Multi-drug Resistant Enterococcus faecium has shown resistance to the following antibiotics Ampicillin, Gentamicin]

[Organisms for] [1/2 cup per [1] gallon water dilution -or- dosing [organism list]] (5 min[utes] contact time)	
Fungus	ATCC and/or Strain
Trichophyton mentagrophytes [(Athlete's Foot fungus)]	[ATCC 9533]
Viruses Enveloped	ATCC and/or Strain
#2009-H1N1 Influenza A virus [(Novel H1N1)] [(a cause of the flu)]	[Strain A/Mexico/4108/2009 CDC #2009712192]
#Avian Influenza A virus [(H3N2)] [(a cause of the flu)]	[Strain A/Washington/897/80 X A/Mallard/New York/6750/78] [ATCC VR-2072]
#Cytomegalovirus	[Strain AD-169] [ATCC VR-538]
#Hantavirus	[(Prospect Hill virus)]
#Herpes Simplex virus type 1	[ATCC VR-733] [Strain F(1)]
#Human Coronavirus [(a cause of the common cold)]	[Strain 229E] [ATCC VR-740]
‡. ##Human Hepatitis B virus (as duck HBV) [(HBV)]	
‡. ##Human Hepatitis C Virus (as bovine viral diarrhea virus) [(HCV)]	
‡. ##Human Immunodeficiency Virus Type 1 [(HIV-1)]	[(Strain HTLV-IIIB)]
#Influenza A virus [Influenza A2] [Flu Virus] [(a cause of the flu)]	[ATCC VR-544, Strain Hong Kong]
#Influenza B virus [(a cause of the flu)]	[Strain B/Hong Kong/5/72] [ATCC VR-823]
#Measles Virus	[ATCC VR-24]
#Newcastle disease virus	[ATCC VR-108] [Strain B1, Hitchner or Blacksburg]
#Parainfluenza virus [(type 3)]	[(Strain C243)] [ATCC VR-93]
#Rubella virus [(German Measles virus)]	[Strain M-33] [ATCC VR-315]
#SARS-associated Coronavirus	[CDC strain 200300592]
#Varicella Zoster Virus	[ATCC VR-1367]
Virus Small Non-enveloped	ATCC and/or Strain
#Rhinovirus type 37 [(a [common] cause of the common cold)]	[ATCC VR-1147, Strain 151-1]

‡ Bloodborne Pathogens

List 2B: Hard, Nonporous Surface Disinfection Organisms [Organisms for] [1/2 cup per 3/4 gallon water dilution -or- dosing [organism list]] (5 min[utes] contact time unless noted)	
Bacteria	ATCC and/or Strain
Acinetobacter baumannii	[ATCC 19606]
Community Acquired Methicillin Resistant Staphylococcus aureus [(CA-MRSA)]	[NARSA NRS123] [(Genotype USA400)]
Escherichia coli O157:H7 [(E. coli)]	[ATCC 35150]
Extended Spectrum Beta Lactamase producing Escherichia coli [(ESBL producing E. coli)]	[ATCC BAA-196]
Legionella pneumophila	[ATCC 33153]
Methicillin resistant Staphylococcus aureus [(MRSA)]	[ATCC 33592]
Pseudomonas aeruginosa	[ATCC 15442]
Salmonella enterica [(Salmonella)]	[ATCC 10708]
Shigella dysenteriae	[ATCC 11835]
Staphylococcus aureus [(Staph)]	[ATCC 6538]
Streptococcus pneumoniae [(Strep)]	[ATCC 6305]
Streptococcus pyogenes [(Strep)]	[ATCC 19615]
Vancomycin Resistant Enterococcus faecalis [(VRE)]	[ATCC 51575]
Yersinia enterocolitica	[ATCC 23715]
Spore-forming Bacterium (1 part bleach + 6 parts water)	ATCC and/or Strain
Clostridium difficile [‡] [(C. diff [‡])] spore	[ATCC 43598]
Mycobacterium (1 part bleach + 7 parts water))	ATCC and/or Strain
Mycobacterium bovis [(BCG)] (Tuberculosis -or- TB) [†] 1	
Mold, Mildew, Fungi	ATCC and/or Strain
Aspergillus brasiliensis [(mildew)] ^{†5} (3/4 cup per 1 gallon water dilution)	[ATCC 16404]
Candida albicans	[ATCC 10231]
Trichophyton mentagrophytes [(Athlete's Foot fungus)]	[ATCC 9533]
Viruses Enveloped	ATCC and/or Strain
‡2009-H1N1 Influenza A virus [(Novel H1N1)] [(a cause of the flu)]	[Strain A/Mexico/4108/2009 CDC #2009712192]
‡Avian Influenza A virus [(H3N2)] [(a cause of the flu)]	[Strain A/Washington/897/80 X A/Mallard/New York/6750/78] [ATCC VR-2072]
‡Cytomegalovirus	[Strain AD-169] [ATCC VR-538]
‡Herpes Simplex virus type 2	[(Strain G)] [ATCC VR-734]
‡Human Coronavirus [(a cause of the common cold)]	[Strain 229E] [ATCC VR-740]
‡, ‡‡Human Hepatitis B virus (as duck HBV) [(HBV)]	
‡, ‡‡Human Hepatitis C Virus (as bovine viral diarrhea virus) [(HCV)]	
‡, ‡‡Human Immunodeficiency Virus Type 1 [(HIV-1)]	[(Strain HTLV-IIIB)]
‡Influenza A virus [Influenza A2] [Flu Virus] [(a cause of the flu)]	[ATCC VR-544, Strain Hong Kong]
‡Influenza B virus [(a cause of the flu)]	[Strain B/Hong Kong/5/72] [ATCC VR-823]
‡Measles Virus	[ATCC VR-24]
‡Parainfluenza virus [(type 3)]	[(Strain C243)] [ATCC VR-93]
‡Respiratory Syncytial virus [(RSV)]	[(Strain Long)] [ATCC VR-26]
‡Rubella virus [(German Measles virus)]	[Strain M-33] [ATCC VR-315]
‡Varicella Zoster Virus	[ATCC VR-1367]

[‡]Follow [the] Special Instructions for Cleaning Prior to Disinfection [listed on label]

[†] must preclean surface prior to disinfection.

¹10 min[ute] contact time

‡‡Bloodborne Pathogens

[Organisms for] [1/2 cup per 3/4 gallon water dilution -or- dosing [organism list]] (5 min[utes] contact time unless noted)	
Viruses Large Non-Enveloped	ATCC and/or Strain
#Adenovirus [type 2] [(causes colds)]	[Strain Adenoid 6] [ATCC VR-846]
#Rotavirus	[Strain WA]
Viruses Small Non-Enveloped	ATCC and/or Strain
#Canine Parvovirus ¹	[Strain Cornell] [ATCC VR-2017]
#Enterovirus EV-D68	[ATCC VR-561]
#Feline Calicivirus (as surrogate for Norovirus -or- Norwalk Virus)	[ATCC VR-782]
#Feline Parvovirus ¹ (Feline panleukopenia virus)	[ATCC VR-648]
#Hepatitis Type A virus [(HAV)]	[Strain HM-175]
#Murine Norovirus [(as surrogate for Norovirus -or- Norwalk Virus)]	[Strain MNV-1.CW1]
#Poliovirus [type 1]	[Strain Chat] [ATCC VR-1562]
#Rhinovirus type 37 [(a [common] cause of the common cold)]	[ATCC VR-1147, Strain 151-1]
List 3: Food Contact Sanitization Organisms	
2 min[ute] contact time	
Bacteria	ATCC and/or Strain
Yersinia enterocolitica	[ATCC 23715]
Salmonella enterica [serovar Typhi]	[ATCC 6539]
List 4: Non-Food Contact Sanitization Organisms	
10 min[ute] contact time	
Bacteria	ATCC and/or Strain
Klebsiella pneumoniae	[ATCC 4352]
Staphylococcus aureus	[ATCC 6538]

¹10 min[ute] contact time

Use Sites and Surfaces:

List 5: Hard, Nonporous Use Surfaces

Kitchen:

Appliances	Latex enamel painted woodwork	Trash cans
Brushes	Lunchboxes	Trash compactors
Cabinet -or- drawer handles	Ovens	Walls
[Ceramic] glazed tile [floors or countertops]	Refrigerator [handles]	Work surfaces
Countertops	Refrigerators	
Faucets	[behind and under] Sinks ^P	
Floors	Solid surface -or- sealed granite countertops	
Freezers	Stoves	
Garbage cans	Stovetops	
Garbage disposals	Thermometers	

Bathroom:

[Bath]tubs	Glazed Porcelain	Sinks
Cat litter boxes	Potty seats -or- trainers	Thermometers
Combs and brushes	Shower curtains	Glazed Tile
Countertops	Shower doors	Toilets [handles]
Faucets	Shower walls	Urinals
Floors	Showers	Vinyl

Baby[']s Nursery -and/or- Items:

Baby Bathtubs	Diaper pails	Painted cribs
Bumpers	Hard, nonporous toys	Plastic mattress covers
Changing tables	High chairs	Playpens
		Restaurant High Chairs

Outdoors:

Barbeque[s] [grills]	Outdoor siding	Sports equipment
Bike -or- bicycle	Plastic patio furniture	Sealed Stucco
Finished woodwork (decks, fences, arbors, trellises, benches, and patio furniture)	Playground sets	Sides of house
Flower pots -and/or- planters	Sealed Brick	Glazed Tile
Golf balls -and/or- clubs	Sealed Driveways, walkways, and sidewalks	Wading -or- kiddy pools
	Sealed Patio stone	

For heavy soil, preclean surface before disinfecting.

Cars:

Dashboard	Door handles	Steering wheel
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[on] hard, nonporous surfaces [of]

Use Sites and Surfaces: continued

List 6: Food Contact Sanitization Use Surfaces:

Baby bottles	Glassware	Sippy cups
Countertops	Plastic [baby] feeding spoons	Stainless cutlery
Dishes	Plastic cutting boards	Stainless utensils
Food Contact Surfaces	Pots and pans	[Travel] mugs
Freezers	Refrigerators	

List 7: Use Sites -or- Locations:

For Use In: -or- This product can be used on hard, nonporous surfaces in *(Enter site(s) or location(s) from List 7)*

Airplanes	Health Clubs	Offices
[All] Around the House ^P	Homes ^P [(including kitchens, -and/or- bathrooms, -and/or- nurseries, -and/or- sick rooms, -and/or- laundry rooms)]	Patient Rooms
Ambulances	Hospital Premises	Pet Kennels
Animal Care Facilities -or- Hospitals	Hospitals	Physicians' -or- Pediatricians' Offices
Animal Husbandry	Hotels -or- Motels -or- Condominiums	Play -or- Common Areas
Attics	Household Premises	Playrooms
Automobiles -or- Cars	Households	Playgrounds
Barbeque -or- Grill Areas	House[hold]s	Pools
Bathrooms	Institutional [establishments -or- premises]	[Public] Restrooms
Cafeterias	Institutions	Public Transportation
Casinos	Kennels	Resorts
Churches	Kitchens	Restaurants
Classrooms	Laboratories	School Buses
Clinics	Laundry	Schools
Closets	Locker Room Facilities	Shelters
Commercial [establishments -or- premises]	[Manicure] [Pedicure] Salons	Shopping Carts
Day Care [Centers]	Meat Processing Plants	Sick Rooms
Dental Offices	Medical Clinics -or- Offices	Spas
Diners	Military Installations	Sports Facilities
Dorms	Movie Theaters	Storage Areas
Eating establishments	Nursing Homes	Stores
Elder Care Center	Nurseries	Timeshares
[Emergency] Waiting Rooms	Office Buildings -or- Places -or- Areas -or- Environments	Toilet Areas
Food Processing Plants/Facilities		Universities
Gyms		Veterinary Offices -or- Premises
		Work places -or- Environments -or- Areas

^P [on] hard nonporous surfaces [of]

List 8 Surface Materials

Glass	Plastic	Vinyl
Glazed tile	Plastic laminate	
Latex enamel	Sealed brick	
Linoleum	Stainless	

General/Cleaning/Stain Removal/Deodorizing Claims:

Now[!] -and/or- New[!] -and/&/or- Improved[!] to be used as a claim descriptor only for the first 6 months of product on shelf

- 1/2 cup = 1 load
- 1/2 cup - concentrated
- 2 in 1 solution for cleaning and laundry
- 2-in-1 laundry and cleaning
- 2 -or- 3 value size bottles
- 2 -or- Twin pack
- [3-in-1 clean] [3x clean]: Cleans, whitens and removes stains
- 3x filtered for the purest bleach
- 10x deep cleaning benefits^f
- ~~X~~% more whitening [ingredients]^{*} -or- ^{**}
- [100 year] Anniversary -and/or- vintage [edition]
- [~~X~~-day] -or- [multi-day] stain protection^[t]
- A classic -or- essential cleaner -or- cleaning product
- [A] [AN] [EXCLUSIVE -and/or- PATENTED] Spot-free -and/or- Streak-free [clean] [shine]
- [A] [AN] [EXCLUSIVE -and/or- PATENTED] Streak-free -and/or- Spot-free results
- [A full week] -or- [days] of stain protection^[t]
- Add **This Product** to your detergent and get more pristine whites
- Advanced -or- Proprietary whitening technology
- Advanced whitening^[*] -or- ^{**}
- All-in-one cleaning and laundry solution
- All you need is [half] -or- [1/2] [of] [a] cup for your laundry needs!
- Anti-Allergen (non-living)
- Beats Other Bleaches in Removing Tough Stains^[t]
- Best whitening, guaranteed [1-800-292-2200] -or- our best bleach ever
- Bleach Works
- Bleaches Out Tough Stains
- Boosts Cold Water Cleaning -or- Washing Power
- Boost Laundry Cleaning Power
- Boosts the performance of your HE -or- High Efficiency machine
- Brighten[s] Laundry [Whites]
- Brightens whites
- Clean-Extend formula^[t]
- Clean laundry begins with a clean machine
- Clean-Less-Often formula^[t]
- Clean more in less time
- Clean Pour
- Cleans [Deodorizes,] [and][.] Whitens [and][,] [Brightens] [and Works in Cold Water][!]
- Cleans -and/or- Deodorizes [Around The House]
- Cleanses -and/or- whitens [the clothes]
- Cleans your [HE -or- High Efficiency] washing machine
- Clean[s] White[s]
- Clean[-]up in no time
- Cleaning booster [even] in -or- on cold water washing
- Coats surfaces for easy cleaning
- Cold Water Booster
- Collectible -or- collector's edition [bottle -or- label]
- Commercial -and/or- Institutional Use
- [Compatible] For Use In High Efficiency -or- HE [Washing] Machines
- Complete cleaning -and/or- whitening formula
- Complete coverage, total clean
- Concentrated [cleaning power]
- Concentrated formula -or- whitening power
- Concentrated formula
- Concentrated power to clean -and/or- whiten
- Concentrated **This Product**
- [[Concentrated] **This Product**] gives you the whitest whites in -or- on your energy efficient, cold water loads -or- setting
- [Concentrated **This Product** is] great for cleaning!
- Concentrated whitening -and/or- cleaning formula -or- power
- Concentrated whitening power [in every drop -or- per washload] [in [an] HE washer[s] -or- machine[s]]
- [Covers and] cleans every inch^P
- Covers & cleans - everywhere^P
- Covers more [, -or- to] clean[s] easier^[t]
- Deep clean
- Deep cleans for less cleaning
- Deep powerful cleaning [action]
- Delivers great results in cold water [so that you don't need to wash in warm water, saving you money every year]
- Delivers great results when you use with your machine's cold water setting
- Deodorizer
- Deodorize[s]
- Deodorizing
- [Destroys -or- Shields against] [common] surface destroyers^[t]
- Detergent alone is not enough [to get out your toughest stains]
- Doesn't need the extra energy it takes to make the water hot
- Don't forget to run an HE -or- High Efficiency maintenance cycle with **This Product**!
- Dual action cleaning and whitening formula
- Easily wipe away [tough] stains -and/or- soils
- Easy way to get whiter whites
- Easy to handle -and/or- use -and/or- carry -and/or- pour -and/or- store -and/or- control
- Easier way to get whiter whites^[*] -or- ^{**}
- Eliminates -or- fights odors
- Eliminates -or- Removes Odors
- [EXCLUSIVE -and/or- PATENTED] Clean rinse technology -or- whitening formula
- Expand the reach of your clean
- Extends the life of your clean^[t]
- Extends time between deep cleans^[t]
- Faster cleanup^[t]
- ^{*}vs. -or- compared to [previous] Clorox® Regular-Bleach₁ [EPA Reg. No. 5813-100]-or- Clorox® Germicidal Bleach [EPA Reg. No. 5813-102]
- ^{**}vs. detergent alone
- ^f[This product] removes 10 of the most difficult laundry stains -or- 10 laundry stains: Tea, Coffee, [Red] Wine, [Blue]berry, Spaghetti -or- Tomato Sauce, Chocolate [Syrup], Mustard, Gravy, [Grape] Juice, [Ball Point] Ink.
- ^[t]vs Clorox® Regular-Bleach₁ -and/or- Clorox® Performance Bleach -and/or- Clorox® Germicidal Bleach -and/or- Clorox® Commercial Solutions Clorox Germicidal Bleach₁ -and/or- previous formula]
- ^[t][due to] temporary surface treatment -or- conditions surface by reducing soil adhesion]
- ^P[on] hard nonporous surfaces [of]

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- Faster-Cleanup Formula^[†]
- Fights dinginess better than ever [before]
- For Standard and HE -or- High Efficiency machines
- For Cold Washing
- For A Clean[er], Fresh[er] Household [& -or- and] Laundry
- For [HE] [Front loading] Washing Machines
- [For] [stain-proof -or- stain-resistant] surfaces^[††]
- For odor-free laundry
- For smart surfaces that repel stains
- For [Use in] Standard -and/or- Top Load -and/or- HE -and/or- Front Load [Washing] Machines
- Formulated for baby's white clothes
- Formulated to block surface stains^[††]
- [Free[!]] Measuring Cup[!]
- Free of dyes and perfumes -or- Dye [and perfume][-]free
- Freshens
- Gets Even Your Dirtiest Clothes White
- Great For Cold Water [Cleaning]
- Get whitening -or- stain removal with ease
- Get[s] whites their whitest
- Gives surfaces that like-new look
- Gives you a far-reaching clean
- Gives you the [cleanest] [whitest] whites in standard and HE -or- High Efficiency machines
- Gives your clean long life^[††]
- Goes Where Clean Has Never Gone Before^[††]
- [Great around the home!] [For cleaning and laundry!]
- [Great] for [the] school[s] -and/or- classroom[s] -and/or- work -and/or- [the] office
- Great for use around the home -and/or- workplace -and/or- laundry room
- [Great -or- Perfect -or- Effective] for cleaning up after your pets -or- dog[s] -or- cat[s] -or- puppy -or- kitten
- Great Value
- Guards against stains^[††]
- [Helps] remove **X%** of everyday stains
- Helps surfaces resist stains^[††]
- Helps to maintain your HE machine
- Improved -or- better -or- enhanced whitening [formula][* -or- **]
- Improved -or- Better -or- Enhanced whitening power [in [a] standard machine[s] -or- washer[s]][* -or- **]
- In-wash booster
- [It's] Clorox clean
- [Just as] gentle on bleachable fabrics [as before*]
- Keep a bottle of ***This Product*** in the kitchen -and/or- the bathroom -and/or- the laundry room -and/or- the garage
- Keeps clothes **X%** whiter and brighter^[* -or- **]
- Keeps clothes brighter^[* -or- **]
- Keeps clothes looking newer longer^[* -or- **]
- Keeps clothes whiter and brighter^[* -or- **]
- Keeps clothes whiter^[* -or- **]
- Keeps clothes whiter longer [to save you money]^[* -or- **]
- Keeps on repelling stains^[††]
- Keeps stains from sticking [to surfaces]^[††]
- Keeps surfaces looking [new -or- like new -or- their [sparkling] best]
- Keeps whites brighter longer^[* -or- **]
- Keeps your whites beautiful
- Laundry looks -and/or- smells clean
- Limited time [offering]
- Liquid cleaning washing compound
- Locks out -or- repels stains -and/or- Mold Stains -and/or- Soap Scum^[††]
- Locks out stains [to preserve surfaces]^[††]
- [Long-lasting -or- Longer] stain protection [for easier cleaning]^{[†][††]}
- [Long-lasting] stain protection [formula]^[††]
- Long Live Clean!
- Made with [new] [innovative] processing technology
- Makes Clean Go Further
- Makes surfaces look -new -or- like new -or- their [sparkling] best
- Makes surfaces stain [resistant -or- proof]^[††]
- Make[s] [your] clean [live -or- last] long^[††]
- Makes [your] deep [cleaning -or- clean] last longer^[††]
- [More] Clean up in less time
- [More -or- Better] coverage, easier cleaning^[†]
- [More -or- Better] coverage for a [better -or- easier] clean^[†]
- More Value [Than Before]
- More whitening in every -or- per washload^[†]
- More whitening power [in every drop -or- per washload] [in [an] HE machine[s] -or- washer[s]]^[†]
- New Look -or- Presentation
- No lime or acids in this solution
- No splash formula
- No water spotting
- Not for individual resale
- Only [half] -or- [1/2] a cup for your laundry whitening needs!
- Over a century of cleaning expertise
- Patented dual whitening technology
- Patented technology for whitest whites
- Powerful Cleaning Action
- [[Proprietary Whitening Technology] [=] [for]] Whitest Whites
- [Proprietary Whitening Technology [=]] Guaranteed best whitening [1-800-292-2200]
- [Proprietary Whitening Technology] keeps whites their whitest [over time] [, Guaranteed] [1-800-292-2200]
- Protective finish repels -or- locks out [future] stains -and/or- soils -and/or- messes^[††]
- Protects against stains for [a full week] -or- [days]^[††]
- Protects against stains for a long [, long] time^[††]

*vs. -or- compared to [previous] Clorox® Regular-Bleach₁ [EPA Reg. No. 5813-100]-or- Clorox® Germicidal Bleach [EPA Reg. No. 5813-102]

**vs. detergent alone

^[†]vs Clorox® Regular-Bleach₁ -and/or- Clorox® Performance Bleach -and/or- Clorox® Germicidal Bleach -and/or- Clorox® Commercial Solutions Clorox Germicidal Bleach₁ -and/or- previous formula]

^[††][due to] temporary surface treatment -or- conditions surface by reducing soil adhesion]

[Bracketed information is optional text.] Highlighted text is new. Strike-through text means removed.
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- Protects against stains [for] a long time [for cleanup in no time][~~tt~~]
 - Protects against [the 5 most] [common] surface destroyers [~~tttt~~], [~~tt~~]
 - Protects against today's stains & tomorrow's~~tt~~
 - Protects -or- Shields [your] surfaces from -or- against grimy buildup~~tt~~
 - [Protects surfaces,] keeps out -or- knocks down grimy build-up~~tt~~
 - Protects surfaces [, stands up to stains] -or- [, locks out stains]~~tt~~
 - Protects surfaces from future [soap scum -and/or- mold -and/or- mildew] stains~~tt~~
 - Protect[s] your surfaces [superbly]~~tt~~
 - Proudly Made in [The USA] [North America] [The United States]
 - [Reduces] [Reduced] water spotting*
 - Quicker Clean-Up Formula~~tt~~
 - Regularly using ***This Product*** can save you money by helping your clothes last longer from removing stains that would have caused you to discard them
 - Removes ***X*** day old laundry stains
 - Removes ***X***% more stains***
 - [Removes and] prevents stains for a smarter clean~~tt~~
 - Removes and repels stains~~tt~~
 - Removes common Non-living household Allergens
 - Remove[s] dirt
 - Removes more stains~~tt~~* -or- **]
 - Removes more stains than other bleaches
 - Removes mold stains and mildew stains
 - Removes old set-in stains
 - Removes stains [and protects surfaces] [against future stains]~~tt~~
 - Removes stains without scrubbing
 - Removes stains without soaking
 - Removes today's stains, protects against tomorrow's~~tt~~
 - Removes [tough -and/or- hard surface] stains other bleaches [leave behind -or- can't]~~tt~~
 - Removes [Tough] Stains [better than detergent alone] [and whitens whites]
 - Removes Tough Stains Better Than Other Bleaches~~tt~~
 - Removes tough stains to get your whitest whites
 - Removes [tough] stains to get [your] whitest whites
 - Remove[s] what detergent can -or- may leave behind
 - Renews whites
 - Repels [grease -and/or- grime]~~tt~~
 - Repels -or- Drives away -or- deflects -or- blocks -or- locks out] stains ~~tt~~
 - Repels [nasty] surface [attackers -or- destroyers]~~tt~~
 - Repels stains and cleans up pains~~tt~~
 - Repels stains -and/or soils [with every use]~~tt~~
 - Repels stains [with ongoing -or- repeated use]~~tt~~
 - Repels [the 5 most] [common] surface destroyers~~tttttt~~~~tt~~
 - Revives -and/or- renews dingy whites
 - Rids -or- Gets Rid of hard to remove stains [better than detergent alone]
 - Rids -or- removes the buildup in [HE] or [High Efficiency] machines
 - Safe to -or- for use on ***insert surface material(s) from List 8***
 - Satisfaction Guaranteed [1-800-292-2200]
 - Scrub-Less Formula
 - Seal[s] in protection [to [help] prevent stains] -or- [[helps] keep[s] stains out] -or- [[helps] prevent[s] stains]~~tt~~
 - Seals surfaces [against stains -or- to lock out stains -and/or- messes]~~tt~~
 - Seals surfaces for easy cleaning~~tt~~
 - Seals surfaces to keep stains away~~tt~~
 - Seals surfaces, stains wash away~~tt~~
 - Smart Surfaces for Easier Cleaning~~tt~~
 - Sparkling White[s]
 - Specially formulated for maximum stability
 - [Specially formulated] [so you] [only] use 1/2 cup [for laundry [use] -or- [for whitest whites]*
 - Speed-Clean Formula
 - Super-Surface Protection~~tt~~
 - Superb Surface Protection~~tt~~
 - Stain dissolving technology -or- dissolves stains
 - Stain guard [formula]~~tt~~
 - [Stain-Proof -or- Stain-Resistant] formula~~tt~~
 - Stain protection that lasts [and lasts]~~tt~~
 - Stain-removing power
 - Stain seal~~tt~~
 - The bleach brand used by 30 -or- thirty million moms [for 4 [four] generations] [for [over] 100 -or- one hundred years] [since 1913]
 - The concentrated cleaning power still gets whites their whitest
 - The confidence of a Clorox clean
 - [The] cleaning -and/or- whitening power you want [when you need it]
 - [The] household essential
 - The Original [All -or- Multi Purpose] Cleaner
 - [The] smart[er] way to clean -or- do laundry
 - The stain remover for whites
 - The white line is the Clorox line
 - [***This Product***,] a clean you can smell
 - [***This Product***,] an essential household item
 - [***This Product***] doesn't need hot water to work
 - [***This Product***,] essential for your disaster preparedness box -or- checklist
 - ***This Product*** Gets Even Your Dirtiest Clothes White
 - [***This Product***] gives you tough stain removal and easy whitening
 - [***This Product***] gives you whitening with ease -or- pouring with ease -or- controlled whitening -or- whitening without effort
- *vs. -or- compared to [previous] Clorox® Regular-Bleach₁ [EPA Reg. No. 5813-100]-or- Clorox® Germicidal Bleach [EPA Reg. No. 5813-102]
- **vs. detergent alone
- ***vs [a/the] [leading] [bargain/value] detergent alone [in HE machines]
- [₁vs Clorox® Regular-Bleach₁ -and/or- Clorox® Performance Bleach -and/or- Clorox® Germicidal Bleach -and/or- Clorox® Commercial Solutions Clorox Germicidal Bleach₁ -and/or- previous formula]
- [₁tt[due to] temporary surface treatment -or- conditions surface by reducing soil adhesion]
- [₁ttttfood grease -and/or- food oil -and/or- coffee stains -and/or- tea stains -and/or- soap scum -and/or- water marks -and/or- dirt -and/or- mud -and/or- toothpaste]

- [***This Product***] has [an] advanced cleaning -and/or- whitening technology -or- formula -or- ingredients [that is not available in detergent]
 - [***This product***] is] concentrated for tough stain removal and is easy to pour
 - [***This Product***] is] concentrated with a high performance -or- precision formula [in [an] HE washer[s] -or- machine[s]]
 - [***This Product***,] keep a bottle in the kitchen -and/or- bathroom -and/or- laundry room -and/or- garage
 - [***This Product***] lets you use cold water which requires no extra energy
 - [***This Product***] makes cleaning easy
 - [***This Product***] has] concentrated whitening power [in an easy-to-handle bottle]
 - [***This Product***,] useful in so many ways
 - ***This Product*** whitens better than ever before [in [an] HE machine[s] or washer[s]]^[*]
 - Throwback -or- retro [bottle -or- label -or- package]
 - Tough stain fighting power
 - Uncommon protection against [the 5 most] common surface destroyers [††††] [††]
 - Use ***This Product*** and save money—it cleans your clothes and your [HE -or- High Efficiency] laundry machine at the same time
 - Use ***This Product*** and see the difference [in -or- on your clothes -or- whites -or- stains]^[* -or- **]
 - Use ***This product*** and see the difference [in -or- on your clothes -or- whites -or- stains] [in [an] HE washer[s] -or- machine[s]]^[* -or- **]
 - Use ***This Product*** for a clean made easy
 - Use ***This Product*** for a Clorox clean
 - Use ***This Product*** for whitest whites
 - Use ***This Product*** -or- Clorox Bleach for pristine whites
 - Use ***This Product*** regularly to help prevent stains from building up -or- getting worse
 - [Use] ***This Product*** [to] [effectively] remove[s] [juice] [berries] [ketchup] [mud] [dirt] [grass] [coffee] [red wine] [spaghetti] [mustard] [tea] stains!
 - Using ***This Product*** with the leading detergent [whitens] -or- [cleans] better in cold water than just using the leading detergent alone in warm water
 - [Value] [Size] [2 -or- 3 -or- 4] Pack
 - [Versatile] Multi-purpose cleaner
 - [Visit -or- Check [out]] our website at] www.clorox.com [for more information] [on Clorox®]
 - Washing Machine Cleaner
 - [Week-Long] -or- [multi-day] Stain Protection[††]
 - White [Brite] [Bright]
 - Whitens and brightens
 - Whitens -and/or- removes stains even on cold water [washing]
 - Whitens better than detergent alone [and is easy to pour]
 - Whitens [Bleachable Fabrics]
 - Whitens [whites] [and removes stains]
 - Whitens whites by removing [tough] stains
 - Whitest Whites
 - Whitest Whites [Technology]
 - [With] ACTEON™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] ACTEON™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] ACTIVE PEC™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] ACTIVE PEC™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] ADVANCED CLEAN POLYMERS™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] ADVANCED CLEAN POLYMERS™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] ADVANCED PROTECTION POLYMERS™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] ADVANCED PROTECTION POLYMERS™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] BRILLIUM™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] BRILLIUM™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
- *vs. -or- compared to [previous] Clorox® Regular-Bleach₁ [EPA Reg. No. 5813-100]-or- Clorox® Germicidal Bleach [EPA Reg. No. 5813-102]
- **vs. detergent alone
- [††[due to] temporary surface treatment -or- conditions surface by reducing soil adhesion]
- [††††food grease -and/or- food oil -and/or- coffee stains -and/or- tea stains -and/or- soap scum -and/or- water marks -and/or- dirt -and/or- mud -and/or- toothpaste]

- [With] CLOROMAX™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] CLOROMAX™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] DUALACTION POLYMERS™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] DUALACTION POLYMERS™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] FACTOR 3™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] FACTOR 3™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - With [hard surface] Stain [Repeller -or- Repellant][^{††}]
 - [With] MIRACEL™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] MIRACEL™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] MIRATEC™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] MIRATEC™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] OPTISHIELD™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] OPTISHIELD™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] patented whitening [formula -or- technology]
 - [With] POLYFEND™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] POLYFEND™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] PROGARD™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] PROGARD™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] PROLON™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] PROLON™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - With stain-away sealer[^{††}]
 - With stain rejector[^{††}]
 - With stain sentry[^{††}]
 - With surface sealer[^{††}]
 - [With] VIBREN™ [a patented Clorox [Bleach] ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - [With] VIBREN™ [ingredient -or- ingredients -or- formula -or- technology -or- compound -or- complex -or- effect -or- ingredient blend -or- ingredient system -or- ingredient mixture -or- blend -or- system -or- mixture]
 - Works better with detergents for long-term whitening*
 - Works [Even] In Cold Water!
 - Works in your maintenance cycle [too]
 - Works on ~~X~~% of everyday stains
- [^{††}[due to] temporary surface treatment -or- conditions surface by reducing soil adhesion]

Sanitizing/Disinfecting:

Now[!] -and/or- New[!] -and/&-or- Improved[!] to be used as a claim descriptor only for the first 6 months of product on shelf

- 1/2 cup kills [99.9% of] [common] [household] germs[‡] or [§]
- 3-in-1: Cleans, whitens, and disinfects
- 5-in-1: cleans, disinfects, whitens, brightens [and] removes odors
- [64 oz bottle] Makes 16 gallons of disinfecting solution **this claim to be used only for 64 oz bottle**
- [121 oz bottle] Makes 30 gallons of disinfecting solution **this claim to be used only for 121 oz bottle**
- A few surprising uses of bleach -or- **This Product**: Disinfecting [pet] toys -and/or- Sanitizing baby bottles -and/or- sippy cups -and/or- plastic cutting boards -and/or- travel mugs -and/or- pet bowls.
- A germicide & disinfectant
- Antibacterial
- Antibacterial produce rinse -or- soak -or- wash
- Antifungal
- Bactericide
- Bactericidal
- Can be used as a produce -or- vegetable -or- fruit rinse -or- soak -or- wash **commercial use only**
- Can be used to disinfect your pet's accessories and nonporous toys
- Can be used to sanitize -and/or- clean your baby's laundry -and/or- clothes -and/or- cloth diapers
- Clean. Disinfect. Protect.^{†††}
- Clean[ing][s] -and/or- disinfect[ing][s] [s] -and/or- protect[ing] [s] [the] [your] **insert site(s)/location(s) from List 7** [area] [environment] against -or- from -or- by killing [99.9% of] [household] germs^{§§} -and/or- bacteria -and/or- viruses[‡]
- Clean[s] away -or- out and [Kill[s]] [Eliminate[s]] [Destroy[s]] [Remove[s]] [Wipe[s] away -or- out] [Attack[s]] [Get[s] rid of] [99.9% of] [the] bacteria -and/or- germs^{§§} -and/or- viruses[‡] [commonly found in **insert site(s)/location(s) from List 7** [areas] [environments]]
- Cleans and Disinfects
- Disinfect -and/or- Deodorize -and/or- Kill [99.9% of] Germs^{§§} on -or- in **insert surface(s) or site(s) from list 5 or 7**
- Disinfect for a Clorox® [bleach] clean
- Disinfectant
- Disinfecting
- Disinfect[s] -and/or- kill[s] [99.9% of] germs with only 1/2 cup
- Disinfects -and/or- Sanitizes -and/or- Deodorizes -and/or- Eliminates Odors -and/or- cleans [around the house^P]
- [Disinfects -and/or- Sanitizes] [, Eliminates Mildew] And Deodorizes
- Disinfects **insert site(s)/location(s) from List 7**
- Disinfects hard, nonporous surfaces against **insert organism(s) from List 2A or 2B, with correct corresponding dilution in Directions For Use**
- Disinfects pet areas, accessories and nonporous toys [including kennels -and/or- litter boxes -and/or- floors]
- Disinfects [potable] drinking water [in emergency situations]
- Disinfects in your home -and/or- kitchen -and/or- bathroom -and/or- garage-and/or- sink -and/or- tub -and/or- toilet
- Eliminates germs -and/or- bacteria
- Eliminates odor causing bacteria and prevents the build-up of odors in your [HE] laundry machine
- Eliminates Odors, Whitens and Disinfects
- Fight[s] -and/or- kill[s] -and/or- effective against Avian influenza virus [on environmental -and/or- hard, nonporous surfaces]
- [Fight[s]] [Kill[s]] [Effective] [Protect[s]] [against] **insert organism(s) from List 2A or 2B, with correct corresponding dilution in Directions For Use**
- Fight[s] -or- Stop[s] -or- Kill[s] -or- Eliminate[s] -or- Destroy[s] -or- Remove[s] -or- Wipe[s] away -or- out -or- Attack[s] -or- Get[s] rid of [99.9% of] [the] germs^{§§} -and/or- bacteria -and/or- mold -and/or- viruses[‡] [that [can] cause [the] [common] cold -and/or- flu] [in your **insert site(s)/location(s) from List 7** [area] [environment]]
- For institutional use
- Fungicidal -or- Fungicide
- Germicidal -or- Germicide
- Gets Rid Of Germs^{§§} -and/or- Dirt
- Help prevent the spread of [the] cold and flu viruses^{††} [in your home -or- office] on treated surfaces
- [Helps] Eliminate[s] -or- Reduce[s] odor [causing bacteria] [from your [HE] machine]
- [Helps] Prevent[s] [the] build-up of odor-causing bacteria [in your machine]
- Hospital Disinfectant
- Inexpensive and effective business place disinfectant
- It's amazing what you can use **This Product** for: disinfecting toys -and/or- sanitizing baby bottles -and/or- sippy cups -and/or- plastic cutting boards -and/or- travel mugs -and/or- pet bowls
- Kill[s] [99.9% of] bacteria on the surfaces you[r kids] touch every day
- Kills [99.9% of] [common household] germs^{§§} -or- bacteria
- Kills [99.9% of] flu virus[‡]
- Kills 99.9% of [common household] germs -or- bacteria -or- cold and flu viruses^{††} in 5 min[utes] **This claim is only to be used on labels with organisms/use instructions with a 5 min[ute] contact time. Not to be used for labels listing Canine Parvovirus, Feline Parvovirus -or- feline panleukopenia virus, or Mycobacterium bovis since these organisms have a 10 min[ute] contact time.**
- Kills [99.9% of] germs^{§§} commonly found in public or commercial facilities
- Kills 99.9% of germs in your laundry⁴
- Kills [99.9% of] [household] mold [and mildew]
- Kills [99.9% of] [household] viruses that cause colds and the flu:

[‡][1/2 cup] in 1 gallon of water

[§]For other germs -or- organisms -or- viruses -and/or- bacteria -and/or- fungi, see back label -or- panel

^{§§}Staphylococcus aureus, Salmonella enterica, Rhinovirus [Type 37] and Influenza A virus.

[†]Influenza A virus

^{††}Rhinovirus [Type 37] and Influenza A virus

^{†††}Protect against germs on hard, nonporous surfaces

⁴Sanitizes: Staphylococcus aureus and Klebsiella pneumoniae

Follow [the] Special Instructions for Cleaning Prior to Disinfection [listed on label]

P [on] hard nonporous surfaces [of]

Rhinovirus and Influenza A virus

- Kills 99.9% of *Klebsiella pneumoniae*
- Kills 99.9% of ***insert organism(s) from List 1*** in your laundry
- Kills [99.9% of] ***insert organism(s) from List 2A or 2B, with correct corresponding dilution in Directions For Use*** [on ***insert surface from List 5***] [in ***insert site(s)/location(s) from List 7***]
- Kills 99.9% of ***insert organism(s) from list 3 or 4***
- Kills [99.9% of] [many] germs^{§§} -and/or- bacteria^P [around your home]
- Kills [99.9% of] surface germs^{§§} and bacteria^{¥¥}
- Kills 99.9% of *Staphylococcus aureus* [in 2 min[utes]]
- Kills [99.9% of] [the] cold -and/or- flu virus^{††}[es]
- Kills [99.9% of] [the] germs^{§§} around your home -or- house
- Kills [99.999% of] *Clostridium difficile*[¥] (C. diff) spores
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] [the] bacteria -and/or- germs^{§§} - and/or- virus[‡][es] [commonly] found in -or- on [the] ***insert surface(s)/site(s) from List 5 or List 7***
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] [the] cold virus^{††††} -and/or- flu virus[†] -and/or- cold and flu virus^{es}^{††} [commonly] found in -or- on [the] ***insert surface(s) or site(s) from List 5 or List 7***
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] [the] bacteria - and/or- germs^{§§} - and/or- virus^{es}[‡] [commonly] found in -or- on [the] ***insert surface(s) or site(s) from List 5 or List 7***
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] [the] ***insert organism(s) from list 2A or 2B, with correct corresponding dilution in Directions For Use*** [commonly] found in -or- on [the] ***insert surface(s) or site(s) from List 5 or List 7***
- Kills *Aspergillus brasiliensis* [(mildew)] [in 10 min[utes]]
- Kills bacteria on hard, nonporous surfaces
- Kills Canine Parvovirus [in 10 [min]utes]
- Kills *Clostridium difficile*[¥] (C. diff) spores
- Kills Enterovirus EV-D68 [in 5 min[utes]]
- Kills Extended Spectrum Beta Lactamase producing *Escherichia coli* [(ESBL producing E. coli)] [in 5 min[utes]] -or- Kills ESBL producing E. coli [in 5 min[utes]]^{§§§§}
- Kills Feline Parvovirus [in 10 min[utes]]
- Kills Germs^{§§} and Removes Odors
- Kills ***insert organism(s) from list 1*** [in your laundry]
- Kills ***insert organism(s) from list 2A or 2B, with correct corresponding dilution in Directions For Use with a 5 min[ute] contact time*** [in 5 [min]utes]
- Kills ***insert organism(s) from list 3*** [in 2 [min]utes]
- Kills *Mycobacterium bovis* [TB] [in 10 [min]utes]
- Kills Methicillin resistant *Staphylococcus aureus* [(MRSA)] [in 5 min[utes]]
- Kills *Mycobacterium bovis* [(BCG)], [(TB)] [(Tuberculosis)]
- Kills -or- removes mold [and mildew]
- Kills *Pseudomonas aeruginosa* [in 5 [min]utes]
- Kills viruses[‡], disinfects[,] [&] [and] deodorizes
- Kills viruses that [can] cause colds and the flu such as Rhinovirus and Influenza A virus
- Mildewcide
- Mildewcidal
- *Pseudomonas aeruginosa*⁵
- Reduces exposure to *Clostridium difficile*[¥] [(C. diff)] -or- *C. difficile*[¥] -or- C. diff[¥] from treated surfaces ***institutional use only***
- Reduces exposure to Methicillin resistant *Staphylococcus aureus* [(MRSA)] from treated surfaces. ***institutional use only***
- [Removing] [Killing] [Fighting] [Eliminating] [99.9% of] germs^{§§} -and/or- bacteria -and/or- viruses [since 1913] [for [more than] 100 years]
- Remove[s] bacteria from your children's hard, nonporous toys
- Removes stains and mildew
- Sanitizer
- Sanitizes [and removes stains]
- Sanitizes [every load] [of your] laundry
- Sanitizes garbage -or- trash cans
- Sanitizes hard, nonporous [food contact] surfaces against ***insert organism(s) from List 3***

†Influenza A virus

††Rhinovirus [Type 37] and Influenza A virus

†††Protect against germs on hard, nonporous surfaces

††††Rhinovirus

§§*Staphylococcus aureus*, *Salmonella enterica*, Rhinovirus [Type 37] and Influenza A virus.

§§§§Extended Spectrum Beta Lactamase producing *Escherichia coli*

¥¥***insert organism(s) from List 2A or 2B, with correct corresponding dilution in Directions For Use***

¥Follow [the] Special Instructions for Cleaning Prior to Disinfection [listed on label]

¥¥¥Methicillin resistant *Staphylococcus aureus*

∞ on hard, nonporous surfaces

5 *Pseudomonas aeruginosa*

- Sanitizes hard, nonporous [non-food contact] surfaces against ***insert organism(s) from List 4***
- Sanitizes hard, nonporous surfaces against ***insert organism(s) from List 3 or 4***
- Sanitizes laundry against ***insert organism(s) from List 1***
- Sanitizes your baby's -or- workout clothes -or- laundry
- Sanitize your home -and/or- kitchen -and/or- bathroom -and/or- garage -and/or- sink -and/or- tub -and/or- toilet exterior
- use instructions will be included for all use site(s) selected***
- Sanitizes hard, nonporous surfaces against ***insert organisms from list 4***
- Sanitizes hard, nonporous food contact surfaces against ***insert organisms from List 3***
- Sanitizes [your] laundry and disinfects [your] home
- Sanitizing
- Streptocidal²
- Staphylocidal³
- To Kill -or- Kills Staph (Staphylococcus aureus) -and/or- Salmonella (Salmonella enterica) -and/or- Pseudomonas aeruginosa -and/or- Cold & Flu Viruses (Rhinovirus type 37 & Influenza A virus) -and/or- Trichophyton mentagrophytes [(Athlete's Foot)] ***Text in parentheses must be included. Only brackets indicate optional text.***
- The solution for your business' [disinfecting] -and/or- [cleaning] needs
- [This holiday season,] don't forget to disinfect -or- clean your ***insert surface from List 5*** [with a solution of bleach]
- [This holiday season,] don't forget to sanitize -or- clean your ***insert surface from List 5 or List 6*** [with a solution of bleach]
- [***This Product***] meets AOAC [Use-Dilution test] efficacy standards [for hospital disinfectants].
- [***This Product***] Removes the dirt -and/or- stains you see and the germs^[§§] you don't see
- [***This Product***.] Useful in so many ways: Disinfect [pet] toys -and/or- Sanitize baby bottles -and/or- sippy cups -and/or- plastic cutting boards -and/or- travel mugs -and/or- pet bowls
- [***This Product***] Whiten[s]. -and/or- Remove[s] Stains. -and/or- Clean[s]. -and/or- Disinfect[s].
- Use 1/2 cup bleach in 1 gallon of water to kill [99.9% of] these [common] [household] germs: ***Insert organisms from list 2A***
- Use 1/2 cup bleach in 3/4 gallon of water to kill [99.9% of] these [additional] viruses & bacteria: ***Insert organisms from list 2B***
- Virucidal‡ -or- Virucide‡
- Whitening -and/or- cleaning -and/or- disinfecting made easy
- Whitens, Deodorizes, and Disinfects

² Streptococcus pyogenes

³ Staphylococcus aureus, MRSA

Emerging Viral Pathogen Claims

Allowable and subject to the terms described in Agency guidance dated August 19, 2016, "Guidance to Registrants: Process for Making Claims Against Emerging Viral Pathogens not on EPA-Registered Disinfectant Labels."

This product qualifies for emerging pathogen claims against:

- Enveloped viruses
- Large non-enveloped viruses
- Small non-enveloped viruses

This product has demonstrated effectiveness against viruses similar to ***insert name of emerging virus*** on hard, nonporous surfaces. Therefore, ***this product*** can be used against ***insert name of emerging virus*** when used in accordance with the directions for use against ***insert name of supporting virus(es)*** on hard, nonporous surfaces. Refer to the ***insert CDC -or- OIE*** website at ***insert pathogen-specific website address*** for additional information.

Insert name of illness/outbreak is caused by ***insert name of emerging virus***. ***This product*** kills similar viruses and therefore can be used against ***insert name of emerging virus*** when used in accordance with the directions for use against ***insert name of supporting virus(es)*** on hard, nonporous surfaces. Refer to the ***insert CDC -or- OIE*** website at ***insert pathogen-specific website address*** for additional information.

Packaging Claims

Now[!] -and/or- New[!] -and/&-or- Improved[!] to be used as a claim descriptor only for the first 6 months of product on shelf

- Bottle designed to pour bleach easily
- Bottle [designed to] improve[s] [your] bleach experience [in HE -or- High Efficiency machines]
- [Bottle is] easy to pour in your [HE -or- High Efficiency] machine
- Bottle is specially designed with your comfort -or- experience in mind
- Easy to use!
- Easy [-] to [-] handle [bottle]
- [Flip top] cap -or- closure [specially] designed for simple and secure closure -or- seal
- Lightweight bottle!
- Pour [***This Product***] with confidence
- Smooth flow goes straight into the machine -or- gets bleach where you want it
- Specially designed [bottle -and/or- closure] for an easy -and/or- accurate pour
- Specially designed [bottle -and/or- handle] to [help [you]] get bleach where you want it [with confidence]
- Specially designed [bottle -or- closure] for a comfortable -and/or- controlled -and/or- balanced pour -and/or- experience
- Specially designed [bottle] -or- [closure] allows you to use bleach right
- Specially designed bottle -and/or- handle [helps] control[s] the flow of bleach
- Specially designed bottle -and/or- closure controls the pour
- Specially designed bottle -and/or- closure helps prevent splashing
- The ***This Product*** bottle even has a spot for your thumb!
- [The ***This Product*** bottle is] designed for comfortable pouring -and/or- handling
- [[The] ***This Product*** bottle is] designed for easy bleach dispensing
- [The ***This Product*** bottle is] designed to handle the strength of bleach
- [The ***This Product*** bottle is] designed to mold to -and/or- easily fit in your hand
- [This bottle] [is] [Designed to] Help[s] Prevent[s] spilling -and/or- splashing
- [***This Product*** has a] technically advanced bottle developed for [smooth -and/or- nearly effortless] pouring
- [***This Product*** was] designed with your comfort in mind
- [***This product***] [you can] pour with confidence
- [***This product's*** new sleek design is] made for modern -or- today's [generation of] -or- HE -or- High Efficiency washing machines
- Thumbprint for easy handling -and/or- pour -or- pouring
- [With] Easy [-] [to] [-] Grip [Handle][!]

Cross-promotion Claims

Now[!] -and/or- New[!] -and/&-or- Improved[!] to be used as a claim descriptor only for the first 6 months of product on shelf

- For colors, use/try Clorox2 Stain Fighter & Color Booster. It removes the toughest [outdoor] stains better than detergent alone!
- Try Clorox2 Stain Fighter & Color Booster, a color-safe way to lose the stains, not the fun!
- Try Clorox2 Stain Fighter & Color Booster in your colored loads (it's bleach-free/ chlorine-free!). Lose the stains, not the fun!
- Try Clorox2 Stain Fighter & Color Booster. It's bleach-free/chlorine-free and safe on colors!
- Try Clorox2 Stain Fighter & Color Booster. Lose the stains, keep the colors, guaranteed. Learn more at Dare2BeColorful.com
- Try Clorox2 Stain Fighter & Color Booster. Removes stains and brightens colors! Learn more at www.clorox.com
- Try Clorox2® Stain Fighter & Color Booster to remove the toughest [outdoor] stains better than detergent alone.
- Try Clorox 2® Stain Remover & Color Booster
- Try Smart Seek™ Bleach for whites [and mostly whites].



SERVICE BULLETINS

[For additional directions for use, including Service Bulletins, visit www.clorox.com/bleachuse.]

Note to reviewer: only approved language from the most recently approved federal master label will be posted to the website.

CLB I (EPA Reg. No. 5813-XXX)

FOR CONTROLLING THE SPREAD OF *PHYTOPHTHORA RAMORUM* [CAUSE OF SUDDEN OAK DEATH] IN FORESTS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

When used as directed, this product is effective in controlling the spread of the invasive pathogen *Phytophthora ramorum* in forests. *P. ramorum* causes a fatal canker disease of several tree species and damages many other plant species.

Water is commonly drafted from streams and fire ponds within forested areas to use in dust abatement on forest roads, equipment cleaning and fire suppression. The use of infested water sources can spread *P. ramorum* to uninfested areas. Treating water prior to use helps control the spread of this pathogen.

Directions for Use: Add 1 gallon of this product to 1000 gallons (~50 ppm available chlorine) of drafted water. Prepare the mixture at least 5 min[utes] prior to application for dust abatement, fire suppression, and cleaning vehicles and logging, road building, and maintenance equipment.

CLB I (EPA Reg. No. 5813-XXX)

FOR PORT ORFORD CEDAR ROOT DISEASE (*PHYTOPHTHORA LATERALIS*) TREATMENT USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

When used as directed, this product is effective in controlling the spread of the fatal fungus *Phytophthora lateralis* [Port Orford Cedar Root Disease] in areas of California and Oregon where Port Orford Cedar (*Chamaecyparis lawsoniana*) grows.

Water is commonly drafted from streams and fire ponds within forested areas to use in dust abatement on forest roads, equipment cleaning and fire suppression. The water source can spread the root disease fungus to uninfested areas. Treating water prior to use helps control the spread of the fungus.

Directions for Use: Add 1 gallon this product to 1000 gallons (~50 ppm available chlorine) of drafted water. Prepare the mixture at least 5 min[utes] prior to application for dust abatement, fire suppression and cleaning trucks, and logging, road building and maintenance equipment.

CLB I (EPA Reg. No. 5813-XXX)

FOR ENCLOSURES AND EQUIPMENT USED FOR AMPHIBIAN CARE: SPECIAL INSTRUCTIONS FOR CONTROLLING THE SPREAD OF *BATRACHOCYTRIUM DENDROBATIDIS* (CHYTRID FUNGUS, FUNGAL PATHOGEN OF AMPHIBIANS)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

For Use on Hard, Nonporous Surfaces of Enclosures and Equipment:

Use protective gloves and ventilate area.

- (1) Remove amphibians from area to be treated.
- (2) Mix 1 part of this product to 4 parts water (approximately 1.2% sodium hypochlorite) (11,500 ppm).
- (3) Thoroughly clean and saturate surfaces for 5 min[utes].
- (4) Rinse thoroughly with water before placing amphibians in enclosures or in contact with equipment.

Note: All water used for cleaning enclosures and equipment must be treated with the bleach solution to avoid rinsing the Chytrid fungus down the drain or contaminating other surfaces.

For Use on Hard, Nonporous Field Equipment:

Any hard, nonporous equipment, that comes into contact with water must be treated with bleach to prevent the fungal pathogen from spreading to clean sites (see instructions above). Care must be taken to avoid environmental contamination when disinfecting in the field.

Note: All water used for cleaning equipment must be treated with the bleach solution to avoid spreading the Chytrid fungus.

**CLB I (EPA Reg. No. 5813-XXX)
FOR CLOSED-LOOP LAUNDRY DISPENSING SYSTEMS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

FOR USE WITH [Insert Dispenser Name] APPROVED DISPENSING SYSTEM. Installation and service should only be performed by a [Company Name]: Laundry Expert.



To Sanitize Laundry: Add enough of this product to reach 160 ppm (parts per million) available chlorine. Use a detergent. Ensure contact with bleach [solution] for 10 min[utes]. This product used according to the laundry use directions is effective against *Staphylococcus aureus* [(Staph)], *Pseudomonas aeruginosa* [(Pseudomonas)], *Klebsiella pneumoniae*, and Methicillin Resistant *Staphylococcus aureus* [(MRSA)].

[For use with 4 to 6 gallon buckets/containers as defined in the ASTM standard; see Child Hazard Drowning Pictogram text below:

NOTICE: CHILDREN CAN FALL INTO BUCKET AND DROWN. KEEP CHILDREN AWAY FROM BUCKET WITH EVEN A SMALL AMOUNT OF WATER.]

**CLB I (EPA Reg. No. 5813-XXX)
FOR SANITIZING HOSPITAL LAUNDRY**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

To sanitize laundry, add enough of this product to reach 160 ppm (parts per million) available chlorine. -or- Use 2/3 cup of this product per standard washer, 1 cup for extra large washers or heavily soiled loads. Use a detergent. Ensure contact with bleach [solution] for 10 min[utes]. This product used according to these directions is effective against *Staphylococcus aureus* [(Staph)] [ATCC 6538], *Klebsiella pneumoniae* [ATCC 4352], *Pseudomonas aeruginosa* [(Pseudomonas)] [ATCC 15442], and Methicillin Resistant *Staphylococcus aureus* [(MRSA)] [ATCC 33592].

**CLB I (EPA Reg. No. 5813-XXX)
FOR DISINFECTION OF FLOORS, WALLS, SHOWERS AND TOILETS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

To disinfect floors, walls and showers: For nonporous surfaces such as vinyl or ceramic glazed tile, clean surfaces to remove gross filth. Rinse surfaces thoroughly with a 1800 ppm available chlorine solution. [Use the Dilution Table to make the desired dilution]. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Allow solution to remain on the surface for 5 min[utes]. Rinse. [Let air dry.]

To disinfect toilets: Flush toilet. Pour 1/2 cup [of] bleach into bowl. Brush bowl [thoroughly], making sure to get under the rim and let solution stand for 5 min[utes] and flush again.

CLB I (EPA Reg. No. 5813-XXX) DISINFECTING GUIDE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product-a germicide-is 6.05% sodium hypochlorite solution containing approximately 5.75% available chlorine by weight. In addition to being a highly effective liquid chlorine bleach for laundering and household disinfecting, it is widely used in sanitation of poultry and livestock houses and equipment, dairies, creameries, restaurants and taverns.

IMPORTANT: Always thoroughly mix with water as directed before using.

Do not allow undiluted product to come in contact with any fabric. (If it does, rinse out immediately with clear, cold water.)

Do not apply with natural sponge.

Do not use on non-stainless steel, aluminum, silver, or chipped enamel.

If used on stainless steel [and other acceptable metals], let solution stand for **no more than 5 min[utes]**, and then rinsed off thoroughly with clear water; otherwise, it may slightly discolor and eventually corrode the metal.

If a metal sprayer is used to apply the solution, rinse sprayer thoroughly after use with clear water, and then oil the plunger.

SEPTIC TANK OPERATION is not affected by regular home and farm use of this product.

TABLE OF LIQUID MEASURES

3 tsp	=	1 Tbsp	=	1/2 Ounce	=	1/16 Cup
16 Tbsp	=	8 Ounces	=	1 Cup	=	1/2 Pint

For directions on sanitizing and disinfecting specific surfaces, write:

THE CLOROX COMPANY
Consumer Services Department
1221 Broadway, Oakland, California 94612-1888

CLB I (EPA Reg. No. 5813-XXX) FOR ASPHALT OR WOOD ROOFS AND SIDINGS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water. Apply a 5000 ppm available chlorine solution by brushing or spraying roof or siding. After 30 min[utes], rinse by hosing with clean water.

CLB I (EPA Reg. No. 5813-XXX)

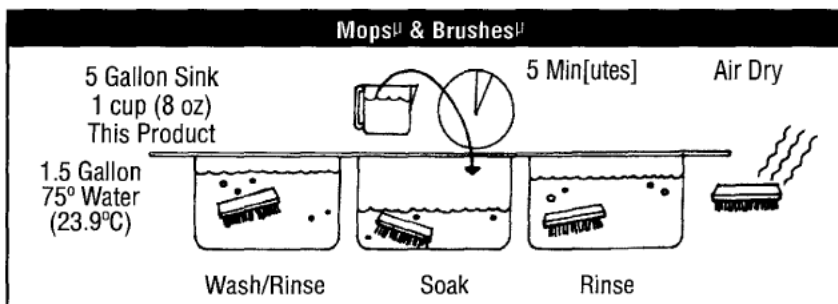
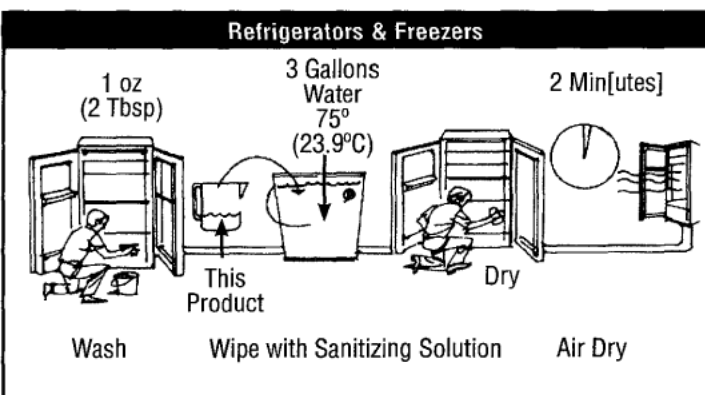
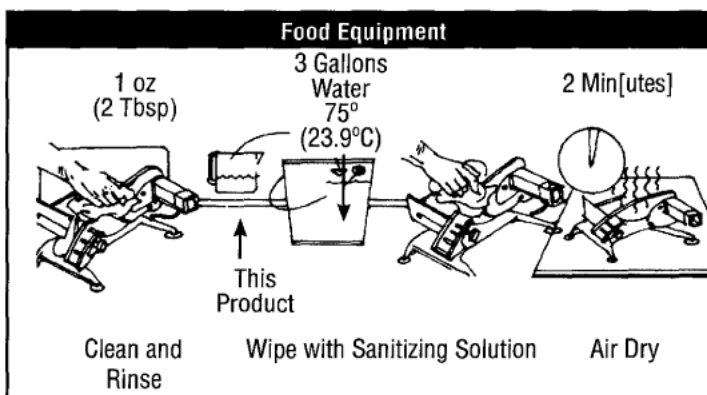
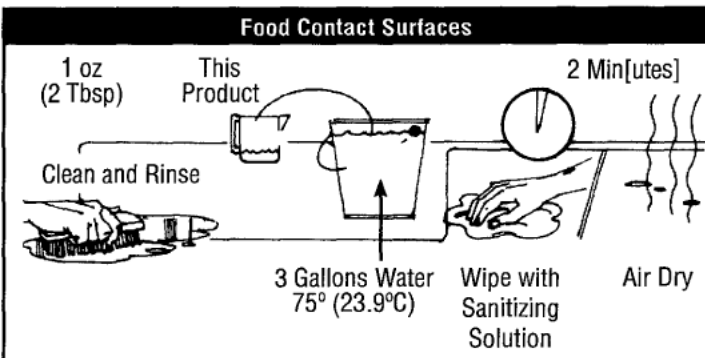
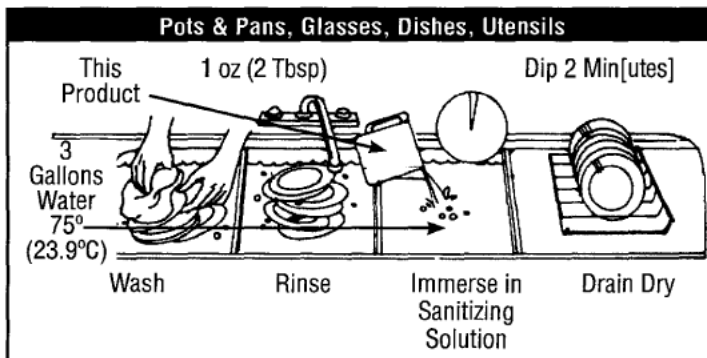
HOW TO SANITIZE AND DISINFECT WITH THIS PRODUCT

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

[This product is] An effective multi-purpose sanitizer/disinfectant that kills many bacteria.

2 teaspoons of this product in a gallon of water is equivalent to 150 parts per million (ppm) available chlorine [(equivalent performance to 200 ppm [test] standard)]. DO NOT use this product full strength for cleaning surfaces. Always dilute strictly in accordance with the directions. For prolonged use, wear gloves.

TO SANITIZE



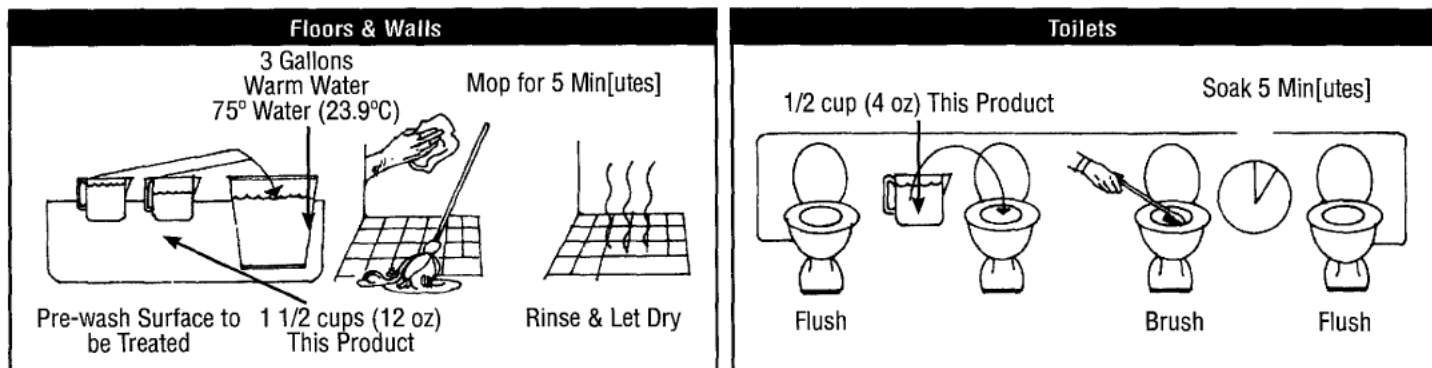
^μ made of hard, nonporous materials

CLB I (EPA Reg. No. 5813-XXX)

HOW TO SANITIZE AND DISINFECT WITH THIS PRODUCT continued

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

TO DISINFECT



CLB I (EPA Reg. No. 5813-XXX) IN SANITATION OF RESTAURANTS AND TAVERNS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

An unclean kitchen and contaminated food result in the hazards of contaminated surfaces. To help avoid this, it is important to keep all work surfaces, equipment and utensils hygienically clean. This product is a highly effective, economical and convenient germicide for this use in restaurants and taverns, as well as in the home.

To sanitize food contact [work] surfaces (not utensils): After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a 150 ppm available chlorine sanitizing solution [(equivalent performance to 200 ppm [[test] standard])]. Apply this solution 2 min[utes]. Air dry.

To disinfect work surfaces (not utensils): After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a 1800 ppm available chlorine disinfecting solution. Apply this solution 5 min[utes]. Rinse with potable water. Air dry.

To sanitize dishes, glassware, utensils: Wash thoroughly; then soak 2 min[utes] in a 150 ppm available chlorine solution [made with hot water] [(equivalent performance to 200 ppm [[test] standard])]. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Drain dry. (Do not use on non-stainless steel, aluminum, silver, or chipped enamel. Disinfect these by scalding.)

Disinfecting sink: A routine follow-up to dishwashing. First wash sink in hot suds. Drain out sudsy water. Then fill with a 1800 ppm available chlorine solution. Let stand 5 min[utes]. Rinse sink.

Sanitizing dishcloths: This product can help you deodorize and sanitize dishcloths. Fill sink with 1 gallon of water. Add 1/2 cup of this product. Soak dishcloths in solution for 5 min[utes], then rinse dishcloths.

To deodorize drain pipes: Flush with very hot water followed by 1/2 cup of this product. Wait 5 min[utes]; flush out with clear water.

To sanitize refrigerators: Remove food before using this product. First wash inside surfaces. Then wipe with a 150 ppm available chlorine solution made with warm water [(equivalent performance to 200 ppm [[test] standard])]. Let stand for [at least] 2 min[utes]. Air dry. (Do not use on non-stainless steel, aluminum, silver, or chipped enamel.)

Ice cream freezers - to clean and sanitize: After using, flush with warm water until water runs clear. Scrub or pressure-spray with solution prepared by thoroughly mixing 1 oz [regular] [powdered] detergent with each gallon of 450 ppm available chlorine solution. Rinse thoroughly with clean, clear water; drain. Immediately before use, sanitize for 2 min[utes] with a 150 ppm available chlorine solution [(equivalent performance to 200 ppm [[test] standard])]; drain thoroughly.

To disinfect hard, nonporous floors (plastic or ceramic tile): Prepare a 1800 ppm available chlorine solution. Mop or scrub. (Do not use on cork or linoleum.) Let stand 5 min[utes]. Rinse.

To sanitize brushes^μ, mops^μ and brooms^μ: After using brushes, mops and brooms, wash thoroughly; then soak for 5 min[utes] in a 2300 ppm available chlorine solution made with warm water. Rinse with clear water; dry. (Do not use on -or- with cellulose sponge mops.)

Pails and dustpans: Remove heavy dirt prior to cleaning. Wash with a 1800 ppm available chlorine solution. Let stand 5 min[utes]. Rinse with clear, cold water. Air dry.

To deodorize and sanitize garbage cans -and/or- diaper pails: Remove heavy dirt with a cleaner. Rinse. Pour in a 2300 ppm available chlorine solution. Swab inside surfaces with this solution. Let stand 2 min[utes]. Rinse with clear water; dry.

^μ made of hard, nonporous materials

DILUTION TABLE: PPM (Parts Per Million Available Chlorine).

Degrades with age and exposure to sunlight and heat. Check the level of available chlorine with a test kit.

1/3 oz this product (2 tsp)	+ 1 Gallon Water	= 150 ppm
[(Equivalent performance to 200 ppm [[test] standard] for food contact surface sanitization)]		
4 oz this product (1/2 cup)	+ 1 Gallon Water	= 1800 ppm
4 oz this product (1/2 cup)	+ 3/4 Gallon Water	= 2300 ppm

CLB I (EPA Reg. No. 5813-XXX)
IN SANITIZING CYCLE OF CHEMICAL SANITIZING DISHWASHING MACHINES

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product is an approved sanitizing agent for use in the sanitizing cycle of chemical sanitizing dishwashing machines.

Directions for Use:

1. Hook up a Clorox bleach -or- ***This Product*** bottle to the automatic bleach dispensing system of the chemical sanitizing dishwashing machine. If the bottle is already in place, make sure that sufficient product remains in the bottle to complete the dishwashing job.
 2. Wash tableware in the machine following the manufacturer's operating instructions.
 3. After the washing/rinsing/sanitizing cycles are completed, remove the dishwashing rack. Let stand 2 min[utes]. Allow the tableware to air dry.
- Caution:** Do not sanitize silverware or pewter with this product as these metals may darken.

Bleach Dispensing System Adjustments

The following steps must be followed before using a new chemical sanitizing dishwashing machine and on a regular basis thereafter:

- a. Start machine and let run until the machine has begun the final rinse cycle.
- b. Take a sample of the rinse water.
- c. Using a chlorine test kit, determine the parts per million (ppm) of available chlorine in the sample.
- d. If the ppm of available chlorine is lower than the minimum or higher than the maximum level of available chlorine permitted by local public health authorities, adjust the bleach dispensing system.
- e. Repeat steps "a" through "c" until a correct ppm of available chlorine is achieved.

Your equipment service representative or dishwashing detergent supplier will often make these adjustments for you.

Correct Chlorine Concentration

Local public health codes vary with regard to the parts per million of available chlorine permitted in the final rinse water of chemical sanitizing dishwashing machines. The minimum level is 50 ppm of available chlorine with a maximum level of 200 ppm, although some states require 100 ppm minimum level. Check with your local public health department on the applicable regulations for your area.

CLB I (EPA Reg. No. 5813-XXX)
FOR CROP/SITE TREATMENT

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

CROP/SITE: ASPARAGUS SEED TREATMENT

Target Pest/Problem:

To aid in the prevention of asparagus root rot (*Fusarium oxysporium* and *F. asparagi*)

Dosage:

6000 ppm available chlorine solution.

Dilution or Application Rate:

Use 1 gallon of solution per pound of seed.

Method of Application:

Wash seed in solution for 40 min[utes], providing continuous agitation. After washing seed, spread and air dry.

Frequency/Timing of Applications:

1 application.

Preharvest Interval:

Preplant treatment.

Other Requirements:

Do not use treated seeds for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.

CROP/SITE: PEPPER SEED TREATMENT

Target Pest/Problem:

To aid in the prevention of bacterial spot (*Xanthomonas vesicatoria*)

Dosage:

10,000 ppm available chlorine solution.

Dilution or Application Rate:

Use 1 gallon of solution per pound of seed.

Method of Application:

Wash seed in solution for 40 min[utes], providing continuous agitation. After washing seed, spread to air dry.

Frequency/Timing of Application:

1 application.

Preharvest Interval:

Preplant treatment.

Other Requirements:

Do not use treated seed for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.

CROP/SITE: TOMATO SEED TREATMENT

Target Pest/Problem:

To aid in the control of bacterial canker (*Corynebacterium michiganense*) and tobacco mosaic virus (TMV).

Dosage:

10,000 ppm available chlorine solution.

Dilution or Application Rate:

Use 1 gallon solution per pound of seed.

Method of Application:

Wash seed in solution for 40 min[utes], providing continuous agitation. After washing seed, spread to air dry.

Frequency/Timing of Application:

1 application.

Preharvest Interval:

Preplant treatment.

Other Requirements:

Do not use treated seed for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.

CROP/SITE: RICE SEED TREATMENT

Target Pest/Problem:

For prevention of bakanae disease *Fusarium fujikuroi* [syn *F. moniliforme*] -or- *Gibberella fujikuroi*

Dosage:

3000 ppm available chlorine solution.

Dilution or Application Rate:

5 gallons of solution per 95 gallons water.

Method of Application:

Using a thoroughly pre-mixed solution, soak seed for two hours then drain solution and replace with fresh water. Continue seed soaking and draining as usual. Do not apply undiluted product directly to seed.

Dosage:

1500 ppm available chlorine solution.

Dilution or Application Rate:

2.5 gallons solution per 97.5 gallons of water.

Method of Application:

Using a thoroughly pre-mixed solution, soak and drain seed as usual (no rinse required). Do not apply undiluted product directly to seed.

Frequency/Timing of Applications:

1 application during preplant soaking of seed.

Pre-harvest Interval:

Preplant treatment.

Other Requirements:

Do not use treated seeds for food or feed. Prepare fresh solution for each batch of seed.

Note: this language applicable to any seed treatment listed above

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear coveralls worn over long-sleeved shirt and long pants, chemical-resistant footwear, chemical-resistant gloves made of any waterproof material, rubber boots plus socks and protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENTS

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the worker protection standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. **IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.]

THIS LABEL MUST BE IN POSSESSION OF THE USER.

REFER TO THE MAIN LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

USER SAFETY REQUIREMENTS

USERS MUST:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the worker protection standard, 40 CFR, part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the worker protection standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the worker protection standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls worn over long-sleeved shirt and long pants, chemical-resistant footwear, chemical-resistant gloves made of any waterproof material, rubber boots plus socks, and protective eyewear.

CLB I (EPA Reg. No. 5813-XXX)

PLANT PARASITIC NEMATODES AND PLANT DISEASE-CAUSING FUNGI QUARANTINE USE DIRECTIONS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Crop/Site/Commodity:	1. Walks, benches, tools, plant containers in nurseries and other quarantine areas 2. Farm equipment and machinery 3. Laboratory work areas, equipment and specimens 4. Deciduous fruit tree nursery stock (dormant)
Target Pest/Problem:	Plant parasitic nematodes, plant disease-causing fungi and general surface disinfection
Dosage:	See dilution rate.
Dilution or Application Rate:	Six parts water with one part this product (equals approximately 0.85% active ingredient)
	Laboratory work areas, equipment and specimens: Prepare a solution of seven or eight parts water to one part product. Scrub areas and implements thoroughly, then wipe or allow to dry naturally. Workers doing the treatment must wear waterproof gloves. Small tools or implements and other items covered above may be immersed for 5 to 10 min[utes] in the solution instead of scrubbing manually. Wipe off plant tissue or soak tissue in the solution.

Deciduous Fruit Tree Nursery Stock:	Five or six parts water with one part product (equals approximately 0.85% to 1.0% active ingredient)
Method of Application:	Drench and dip method
Deciduous Fruit Tree Nursery Stock:	1. Thoroughly clean all soil from roots. 2. Dip entire tree root system in solution for 30 to 45 seconds. 3. Immediately rinse tree root system with clean water upon removal from dip solution.
Frequency/Timing of Applications:	As needed
Deciduous Fruit Tree Nursery Stock:	One application at harvest (tree-digging period)
Field Reentry After Application:	Not applicable
Preharvest Interval:	Not applicable
Other Requirements:	Do not apply through any type of irrigation system.
Deciduous Fruit Tree Nursery Stock:	Workers required to wear eye protection and waterproof gloves.

CLB I (EPA Reg. No. 5813-XXX)
KARNAL BUNT QUARANTINE TREATMENT USE DIRECTIONS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Crop/Site/Commodity:	Tools, conveyances, mechanized farm equipment, seed conditioning or milling equipment, soil moving equipment, or grain elevators and structures used for storing and handling grain
Target Pest/Problem:	Karnal bunt (<i>Tilletia indica</i>)
Dosage:	See dilution rate.
Dilution Rate:	Mix 1 part this product to 3 parts water (equals approximately 1.5% active ingredient).
Method of Application:	Before treating remove all soil and plant debris. The dilute solution of sodium hypochlorite will be used to wet the point of runoff surfaces potentially exposed to the pathogen. Saturate any soil removed by the treatment with the solution. Wash down the equipment or site thoroughly with clean water after 15 min[utes] to minimize corrosion.
Crop/Site/Commodity:	Wheat and triticale germplasm for research or seed increase use. Commodities may not be used for food, feed or oil purposes.
Target Pest/Problem:	Karnal bunt (<i>Tilletia indica</i>)
Dosage:	See dilution rate.
Dilution Rate:	Mix 1 part this product to 3 parts water (equals approximately 1.5% active ingredient) with 2mL/L Tween added.
Method of Application:	Treat seed with the dilute solution and agitate for 10 min[utes] at room temperature. Follow seed treatment by a 15 min[ute] rinse with clean, running water, then drying of the seed.
Additional Restrictions, User Precautions and Requirements:	Be sure treated surfaces are dry before handling. Read and follow precautionary statements on product label.

CLB I (EPA Reg. No. 5813-XXX)
CITRUS CANCER TREATMENT USE DIRECTIONS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Crop/Site/Commodity:	T511-1 Citrus and other Rutaceous seeds from citrus canker countries
Target Pest/Problem:	<i>Xanthomonas axonopodis</i> , <i>pv. citri</i> (citrus canker)
Dosage:	See dilution rate.
Dilution Rate:	Mix 1 part of this product to 9 parts water (equals approximately 0.6% active ingredient).
Method of Application:	T511-1 seeds shall be treated for possible infection with citrus canker bacteria by first washing seeds if any mucilaginous materials are adhering. Next, immerse the seeds in water at 125 degrees F or higher for 10 min[utes]. Then immerse seeds for a period of at least 2 min[utes] in a 0.6% sodium hypochlorite solution. Drain, dry and repack near original moisture content.

CLB I (EPA Reg. No. 5813-XXX)
SOUTHERN SEA OAT SEEDS (*UNIOLA PANICULATA*)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Crop/Site/Commodity:	Southern sea oat seeds (<i>Uniola Paniculata</i>)
Target Pest/Problem:	Plant disease-causing bacteria and fungi
Dilution of Product:	Mix 1 part of this product to 1.2 parts water (27000 ppm).
Method of Application:	Soak seeds in solution for 15 min[utes], rinse with tap water and allow to dry at 21°C (70°F) for 30 min[utes]. Store in cool dry location prior to germination.
Frequency/Timing of Application:	Treat seeds prior to germination.
Precautions:	As sodium hypochlorite is corrosive to many metals, chains and other machine parts must be either plastic or plastic coated and must be rinsed with clear water after use of product. Do not mix full-strength product or treatment solution with any other agricultural chemical, ammonia, or acid. Read and follow precautionary statements on product label.
NOTE:	DO NOT USE TREATED SEED FOR FOOD OR FEED. Use bleach treatment only on crops and for the purposes listed. Apply only as specified above.

CLB I (EPA Reg. No. 5813-XXX)
FOR FRUIT & VEGETABLE WASHING (*commercial use only*)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Thoroughly clean all fruits and vegetables in a wash tank. Prepare a sanitizing solution of 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables for 2 min[utes] in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

CLB I (EPA Reg. No. 5813-XXX)
AS A FUNGICIDE FOR SEED POTATOES

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product is fungicidal to the Verticillium wilt organism *V. albo-atrum* (microsclerotial type) on seed potatoes. A bleach solution of this product is applied to whole seed and freshly cut seed potato pieces during the cutting operation for planting. [Research at the Washington State University Irrigated Agriculture Research and Extension Center² has shown that treatment with a sodium hypochlorite solution helps to prevent the spread of organisms to uninfected soil or fields via seed potato surfaces.]

Use Instructions

Thoroughly mix a solution of 6000 ppm available chlorine for spraying. Use this solution to spray freshly cut seed potato pieces from the top and bottom of the cutting chain or elevator with a series of non-mist nozzles at 3 to 5 psi. Thoroughly cover all cut and uncut surfaces with the solution. The treatment will be most effective on clean seed tubers, as the organic matter in soil will reduce the effectiveness of the sodium hypochlorite.

Plant within four hours of the cutting and bleach treatment operation. If planting is delayed, store the treated seed in clean, open, well-ventilated bins or truck beds. Storing cut, wet seed in large unventilated containers will contribute to secondary breakdown from soft rot organisms.

Safety Precautions

Do not mix full-strength product or treatment solution with any other agricultural chemical, ammonia, or acid. Avoid prolonged contact of this product with skin. Wear safety glasses. If full strength or diluted bleach is splashed in the eyes, flush with water.

Conduct the spraying operations either outside, in a well-ventilated building, or under a hooded exhaust system. Use non-misting nozzles to avoid breathing of mist. Wear a face mask and plastic or rubber gloves and clothing. Because sodium hypochlorite is corrosive to many metals, chains and other machine parts should be either plastic or plastic-coated and rinsed with clear water after use.

NOTE: DO NOT USE THE TREATED SEED FOR FOOD OR FEED. Use the bleach treatment only on crops and for the purposes recommended. Apply only as specified above. Do not apply in a dipping operation or bleach solution may become contaminated with soil and organic matter from the potato surfaces and lose its effectiveness.

²Easton, G.D., M.E. Nagle, and D.L. Bailey, 1972. "*Verticillium albo-atrum* Carried by Certified Seed Potatoes into Washington and Control by Chemicals", *American Potato Journal* 49: 397-402.

CLB I (EPA Reg. No. 5813-XXX) FOR MEAT AND POULTRY PROCESSING WATER

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product may be used in processing water of meat and poultry plants at concentrations up to 5 ppm (parts per million) calculated as available chlorine. Chlorine may be present in poultry chiller intake water, in water for reprocessing poultry carcasses internally contaminated with feces, and in red meat carcass final wash water at concentrations between 25 and 50 ppm calculated as available chlorine. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Chlorine must be dispensed at a constant and uniform level and the method or system must be such that a controlled rate is maintained. Do not recirculate or re-use processing water.

CLB I (EPA Reg. No. 5813-XXX) FOR SANITIZING SOLUTIONS FOR EQUIPMENT AND UTENSILS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product is authorized for use as a sanitizing solution in official establishments operating under the USDA meat, poultry, shell egg grading and egg products inspection programs.

Before using this product, food products and packaging materials must be removed from the room or kept protected.

Before they are treated with a bleach solution, the food processing equipment and utensils must be thoroughly washed and then rinsed with clear, cold water.

The bleach solution used for sanitizing must not exceed 20150 ppm (parts per million) available chlorine. [Use the Dilution Table to make the desired dilution]. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] The bleach solution must be applied by spraying, soaking or scrubbing. Treated surfaces must remain wet for at least 2 -or- two min[utes].

A potable water rinse is not required, provided the equipment and utensils are adequately drained before they come into contact with food. Little or no residue must remain to adulterate or otherwise affect edible products.

**CLB I (EPA Reg. No. 5813-XXX)
FOR MEAT & POULTRY PLANT LAUNDRY USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product may be used on fabric which contacts meat or poultry products directly or indirectly, provided that the fabric is thoroughly rinsed with potable water at the end of the laundering operation.

To sanitize laundry, add enough of this product to reach 160 ppm (parts per million) available chlorine (2/3 cup of bleach per standard washer, 1 cup for extra large washers or heavily soiled loads). Use a good detergent. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Adjust to exactly 160 ppm available chlorine.

**CLB I (EPA Reg. No. 5813-XXX)
SANITATION IN CARE OF SWINE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Hog houses and farrowing houses - To clean and disinfect:

- (1) Pre-clean by removing loose dirt, litter and debris. Dirty or coated surfaces cannot be disinfected.
- (2) Prepare a 2300 ppm available chlorine solution. Let stand for [at least] 5 min[utes].
- (3) Scrub or pressure-spray all surfaces with this solution. Rinse with clear, cold water.
- (4) Allow to dry before housing pigs.

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stall chutes and other facilities occupied or traversed by animals. Empty all troughs, feeding and watering appliances. Thoroughly clean all surfaces with soap or detergents and rinse with water.

Ventilate buildings, cars, boats and other closed spaces. Do not house livestock, poultry or employ equipment until chlorine has dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse.

Clean and disinfect metal watering troughs and feeders by pressure-spraying or scrubbing with a of 2300 ppm available chlorine solution. Let stand for [at least] 5 min[utes]. Rinse thoroughly with clear, cold water; drain dry. (Clean and disinfect drinking troughs and feeders before housing pigs, and as often as necessary to keep sanitary.)

To sanitize drinking water: Prepare a 5 ppm available chlorine solution using clear water. (Water containing suspended material is difficult to sanitize.)

NOTE: Clean metal surfaces can be sanitized using the above method. Wooden surfaces are difficult to sanitize by any method.

[Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.

**CLB I (EPA Reg. No. 5813-XXX)
FOR POULTRY CARE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Keeping poultry healthy, productive and profitable is largely a problem of disease prevention. Remedial measures are much more difficult and often less successful than preventing the spread of disease before it infects the flock. Regular use of this product in the sanitation and disinfection of chicken houses, brooders, and other poultry equipment is an effective aid in preventing many diseases of bacterial and viral origin.

To sanitize drinking water: Prepare a 5 ppm available chlorine solution using clear water. Let stand 1 min[ute]. Use in glass, porcelain, stoneware or concrete containers. Clean containers daily; rinse.

For young chicks, prepare a 2 ppm available chlorine solution since baby chicks do not soil the water as rapidly as grown chickens, and the solution retains its effectiveness longer.

When cleaning drinking water containers, etc., an 1800 ppm available chlorine solution is effective in removing the slime. **DO NOT ALLOW BIRDS TO DRINK THIS SOLUTION.**

To clean and disinfect poultry houses, brooders, hatcheries: Clean and disinfect poultry houses between cycles. Clean hatcheries weekly or as necessary to keep sanitary. Metal surfaces can be satisfactorily disinfected. Wooden surfaces are difficult to sanitize by any method.

- (1) Remove all litter, loose dirt and debris.
- (2) Prepare a 2300 ppm available chlorine solution.
- (3) Using this solution, scrub or pressure-spray all exposed areas, including floor, walls, ceiling posts and support beams. Let stand for 5 min[utes].
- (4) Rinse with clean, clear, cold water.
- (5) Let dry thoroughly before introducing poultry.

Metal incubators, feeders, water containers, other poultry equipment and utensils - To clean and disinfect: Preclean removing loose dirt and debris. Scrub or pressure-spray with a 2300 ppm available chlorine solution. Let stand [for] 2 [at least] 5 min[utes]. Rinse with clear, **cold** water. Let dry.

For continuous washers, prepare washing solution as above. Add an additional 4 gallons of 50 ppm available chlorine solution every 30 min[utes]. Dump wash tank and recharge every 2 hours. **For manual method,** soak eggs for only 1 to 2 min[utes]. Agitate basket. Make sure eggs are completely covered.

Air-dry eggs as rapidly as possible. Store in cool (55° F) room. Maintain relative humidity of 60-80%.

NOTE: Keep egg-washing equipment sanitary. Frequent cleaning will aid in operation and produce more sanitary eggs. While equipment is idle, bacteria can multiply. This contamination can be reduced by thoroughly flushing all equipment immediately before use with a solution of 200 ppm available chlorine.

CLB I (EPA Reg. No. 5813-XXX)

SPECIAL INSTRUCTIONS FOR INACTIVATING AVIAN INFLUENZA A VIRUS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

FOR INACTIVATION OF AVIAN INFLUENZA A IN POULTRY HOUSES, BROODERS, HATCHERIES:

1. Remove all poultry or animals and feeds from the premises, trucks, vehicles, coops, crates and enclosures.
2. Remove all litter and manure or droppings from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals or poultry.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Mix 1 part of this product with 32 parts water. Saturate all surfaces with the disinfecting solution for 5 min[utes].
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
7. Ventilate buildings, coops, and other closed spaces. Do not house livestock or poultry or employ equipment until treatment has been absorbed, set, or dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

CLB I (EPA Reg. No. 5813-XXX) IN CARE OF LIVESTOCK, HORSES, PETS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

To clean and disinfect barns, stables, hutches, kennels: Preclean removing all litter, loose dirt and debris. Prepare a 2300 ppm available chlorine solution. Using the solution, thoroughly scrub or pressure-spray all exposed areas including floor, walls, ceiling posts and support beams. Let stand for [at least] 5 min[utes]. Rinse with clean, clear, **cold** water. Let area dry thoroughly before housing animals.

Loading and hauling equipment: Loading chutes, trucks, trailers and other equipment for transportation of animals must be cleaned and disinfected prior to use. Pressure-spray or scrub with a 2300 ppm available chlorine solution. Let stand for [at least] 5 min[utes]. Rinse with clean, clear, **cold** water. Allow to dry before use.

Feeders and drinking water containers - to clean and disinfect: Thoroughly scrub or pressure-spray with a 2300 ppm available chlorine solution. Let stand for [at least] 5 min[utes]. Rinse thoroughly with clear, **cold** water; allow to drain dry. (A solution of 1800 ppm available chlorine is effective in removing slime which sometimes forms on drinking water containers. **DO NOT LET ANIMALS DRINK THIS SOLUTION.**)

To sanitize animals' drinking water: Prepare a 5 ppm available chlorine solution using clear water. Use in glass, plastic, porcelain or concrete containers daily. (See directions above.)

CLB I (EPA Reg. No. 5813-XXX) FOR FOOD EGG SANITIZATION

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

To sanitize food eggs: Thoroughly clean all eggs. Prepare a 200 ppm available chlorine solution. Let stand [for] 10 min[utes]. The sanitizer temperature must not exceed 130° F. Spray the warm sanitizer so that the eggs are completely wet. Allow the eggs to fully dry before casing or breaking. Do not apply a potable water rinse. The solution must not be re-used to sanitize eggs.

CLB I (EPA Reg. No. 5813-XXX) FOR DAIRY AND CREAMERY EQUIPMENT SANITATION

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product is effective as a chemical sanitizer of milk utensils, containers and equipment. This product dissolves milk solids and other protein material and is a quick and effective deodorizer.

An exposure period of at least 2 min[utes] to a 150 ppm available chlorine solution must be maintained when the solution temperature is 75° F. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Lower solution temperatures result in slower action; for each 18° F drop in temperature, approximately double the exposure time is needed to achieve equivalent bactericidal action with same strength of solution. You can also compensate for lower temperatures by increasing the concentration of this product.

You must clean out large deposits of milk or other organic matter before applying this product/water solution. A sharp decline in the available chlorine content of the solution following circulation through milk processing equipment is usually regarded as evidence of inadequate cleaning of the equipment. If this occurs, investigate promptly.

RUBBER TEAT CUPS AND TUBES - Before each milking, prepare a 150 ppm available chlorine sanitizing solution. Dip teat cups into this solution for 2 min[utes] before transferring them from one cow to another.

To sanitize - SOAKING METHOD: After each milking, wash cups and tubes by brushing thoroughly with detergent solution. Rinse cups and tubes with cold water. Prepare a 150 ppm available chlorine sanitizing solution in earthenware, glass, porcelain or stoneware containers. Submerge cups in this solution for 2 min[utes], holding ends of tubes; coil tubes slowly into solution between milkings; drain thoroughly before using.

To maintain sanitizing solution at proper strength, add 1/2 oz of this product daily (in hot weather, 3/4 oz) for each 3 gallons water, mix well. Old solution may be utilized for deodorizing and making floors and drains sanitary; for this purpose, add 1 oz of this product for each 5 gallons of old solution; mix well.

To sanitize - RACK METHOD: After each milking, rinse cups and tubes in cold water. Wash in detergent solution, then rinse. Prepare a 150 ppm available chlorine sanitizing solution; place solution in bottle above rack for 2 min[utes]. Place tubes and cups in rack; fill with solution and let stand between milkings; drain thoroughly and air dry before using. Old solution may be utilized in deodorizing and making floors and drains sanitary.

METAL TEAT CUPS AND TUBES - Before each milking, prepare a 150 ppm available chlorine sanitizing solution. Dip teat cups into this solution before transferring them from one cow to another.

To sanitize: After each milking, rinse cups and tubes with cold water. Wash in detergent solution; rinse in a 150 ppm available chlorine solution for 2 min[utes]; drain thoroughly and dry before using. **(Do NOT leave metal cups in bleach solution.)**

To clean and sanitize milking machines and utensils: Immediately after milking, flush equipment with clean, lukewarm water. Dismantle equipment after each milking and wash it (including all rubber parts and stanchion hoses) and all utensils with a solution prepared by thoroughly mixing 1 oz of your [regular] [powdered] detergent with each gallon of a 150 ppm available chlorine solution. Water temperature must be 100° F to 130° F. **(DO NOT MIX THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.)** Rinse equipment and utensils thoroughly with clean, clear water; drain. Air dry. **Immediately before use, sanitize according to directions shown below.**⁵

Cleaning in place - bulk storage tanks, dairy pipelines, transfer stations: Immediately after emptying milk, flush surfaces with a large volume of clear, lukewarm water until water runs completely clear. Thoroughly mix solution of 1 oz of your [regular] [powdered] detergent with each gallon of a 150 ppm available chlorine solution. Use hot water if available, and maintain the temperature of the solution at 120-160° F throughout the entire circulation. **(DO NOT USE THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.)** Circulate the sanitizing solution through the system for 10 to 15 min[utes] (Brush-wash with solution all parts not coming in contact with solution as it circulates.) Rinse thoroughly with clean, clear water; allow to drain. Air dry. Seal this equipment to help protect against contamination. **Immediately before use, sanitize according to directions shown below.**⁵

Separators, strainers, milk cans, pails, churns, pasteurizers - To clean and sanitize: After using, rinse immediately with clear, cold water; then scrub or pressure-spray with solution of 1 oz of your [regular] [powdered] detergent thoroughly mixed with each gallon of 150 ppm available chlorine solution. Rinse with clean, clear water; drain thoroughly. Air dry. **Immediately before use, sanitize according to directions shown below.**⁵

Milk bottles - To sanitize: Clean and rinse, then immerse for 2 min[utes] in a 150 ppm available chlorine solution prepared with cold or lukewarm water; drain; fill. If bottles are not filled promptly, rinse again with same strength bleach solution immediately before filling; drain thoroughly. Air dry. Ordinarily, 12 gallons of this strength solution will sanitize 5000 clean quart bottles. Keep this bleach solution clean and free from milk particles.

Ice cream freezers - To clean and sanitize: After using, flush with warm water until water runs clear. Scrub or pressure-spray with solution prepared by thoroughly mixing 1 oz of [regular] [powdered] detergent with each gallon of 150 ppm available chlorine solution. Let stand 2 min[utes]. Rinse thoroughly with clean, clear water; drain. Air dry. **Immediately before use, sanitize according to directions shown below.**⁵

⁵**BEFORE USE** - Rinse with a 150 ppm available chlorine sanitizing solution for 2 min[utes]; drain thoroughly.

**CLB I (EPA Reg. No. 5813-XXX)
FISH PONDS AND EQUIPMENT**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Fish Ponds: Remove fish from ponds prior to treatment. Thoroughly mix 220 oz of this product to 10,000 gallons of water to obtain 10 ppm available chlorine. Add more product to the water if the available chlorine level is below 1 ppm after 5 min[utes]. Return fish to pond after the available chlorine level reaches zero.

Fish Pond Equipment: Thoroughly clean all equipment prior to treatment. Thoroughly mix 5 oz of this product to 10 gallons of water to obtain 200 ppm available chlorine. Soak porous equipment for one hour.

**CLB I (EPA Reg. No. 5813-XXX)
MAINE LOBSTER PONDS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Remove lobsters, seaweed, etc. from ponds prior to treatment. Drain the pond. Thoroughly mix 13000 oz of this product to 10,000 gallons of water to obtain 600 ppm available chlorine. Apply so that all barrows, gates, rocks and dams are treated with product. Permit high tide to fill the pond then close gates. Allow water to stand for 2 to 3 days until the available chlorine level reaches zero. Open gates and allow 2 tidal cycles to flush the pond before returning lobsters to pond.

**CLB I (EPA Reg. No. 5813-XXX)
CONDITIONING LIVE OYSTERS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Thoroughly mix 12 oz of this product to 10,000 gallons of water to 50 - 70°F to obtain 0.5 ppm available chlorine. Expose oysters to this solution for at least 15 min[utes], monitoring the available chlorine level so that it does not fall below 0.05 ppm. Repeat entire process if the available chlorine level drops below 0.05 ppm or the temperature falls below 50°F.

**CLB I (EPA Reg. No. 5813-XXX)
CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Prepare a solution containing 200 ppm of available chlorine by mixing 5 oz of this product with 10 gallons of water. Pour into drained pond potholes. Repeat if necessary. Do not put desirable fish back into refilled ponds until chlorine residual has dropped to 0 ppm, as determined by a chlorine test kit.

CLB I (EPA Reg. No. 5813-XXX)
FOR EMERGENCY DISINFECTION OF DRINKING WATER (POTABLE)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Emergency disinfection:

When boiling of water for 1 min[ute] is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified contaminated water to a clean container and add 8 drops to 1 gallon of water [(2 drops to 1 quart)] or add 1/8 teaspoon of this product to 1.5 gallons of water. Allow the treated water to stand for 30 min[utes]. Properly treated water will have a slight chlorine odor. If not, repeat dosage and allow the water to stand an additional 15 min[utes]. The treated water can then be made palatable by pouring it between clean containers several times.

For cloudy water, use 16 drops per 1 gallon of water [(4 drops to 1 quart)] or add 1/4 teaspoon of this product per 1.5 gallons of water. If no chlorine odor is apparent after 30 min[utes], repeat dosage and wait an additional 15 min[utes].

CLB I (EPA Reg. No. 5813-XXX)
FOR DISINFECTION OF POTABLE DRINKING WATER SYSTEMS
(Public and Individual Systems)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Public system:

Mix a ratio of this product to water to produce a 10 ppm available chlorine by weight. Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

Individual systems:

1. Dug wells: Upon completion of the casing (lining), wash the interior of the casing (lining) with a 100 ppm available chlorine solution using a stiff brush. After covering the well, pour the sanitizing solution into the well through both the pipesleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Consult your local Health Department for further details.

Individual water systems:

1. Drilled, driven and bored wells: Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. Add 5 to 10 gallons of clean, chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of pump cylinder with the sanitizer. Drop pipeline into well, start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer into the well. Mix well [(2 drops to 1 quart)]. Consult your local Health Department for further details.

2. Flowing artesian wells: Artesian wells generally do not require disinfection. If analysis indicates persistent contamination, disinfect the well. Consult your local Health Department for further details.

**CLB I (EPA Reg. No. 5813-XXX)
FOR EMERGENCY DISINFECTION AFTER FLOODS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Wells:

Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to produce a 10 ppm available chlorine residual, as determined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to produce a 50 ppm available chlorine residual. Agitate the well water for several hours and take a representative water sample. Re-treat well if water samples are biologically unacceptable.

**CLB I (EPA Reg. No. 5813-XXX)
FOR EMERGENCY DISINFECTION AFTER FIRES**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Cross connections or emergency connections:

Set up the hypochlorination or gravity feed equipment near the intake of the untreated water supply. Apply sufficient product to give a chlorine residual of at least 0.1 to 0.2 ppm at the point where the untreated supply enters the regular distribution system. Use a chlorine test kit.

**CLB I (EPA Reg. No. 5813-XXX)
FOR EMERGENCY DISINFECTION AFTER DROUGHTS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

A. Supplementary water supplies:

Set up the gravity or mechanical hypochlorite feeders on a supplementary line to dose the water to a minimum chlorine residual of 0.2 ppm after a 20 min[ute] contact time. Use a chlorine test kit.

B. Water shipped in by tanks, tank cars, trucks, etc.:

Thoroughly clean all containers and equipment. Spray a 500 ppm available chlorine solution and rinse with potable water after 5 min[utes]. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.22 ppm chlorine residual. Use a chlorine test kit.

**CLB I (EPA Reg. No. 5813-XXX)
FOR EMERGENCY DISINFECTION AFTER MAIN BREAKS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Mains:

Before assembly of the repaired section, flush out mud and soil. Permit water flow of at least 2.5 feet per min[ute] to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

CLB I (EPA Reg. No. 5813-XXX) FOR SPAS, HOT TUBS AND IMMERSION TANKS, ETC.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Spas/hot tubs:

Using a dilution chart or formula, calculate an approximate amount of product per 1000 gallons of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.8. Some oils, lotions, fragrances, cleansers, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

- 1. Maintaining the water:** To maintain the water, apply the product solution over the surface to maintain a chlorine concentration of 5 ppm.
- 2. After each use:** Shock treat to control odor and algae, using the product at a rate of 1 3/4 cups to 500 gallons of water.
- 3. Periods of disuse:** During periods of disuse, add product daily to maintain a 3 ppm chlorine concentration.
- 4. Do not reenter pool** until the chlorine level is between 1 to 3 ppm. Re-entry to treated spas/hot tubs is prohibited above 5 ppm due to risk of bodily harm.

CLB I (EPA Reg. No. 5813-XXX) FOR WADING POOL DISINFECTION

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product—a 6.05% sodium hypochlorite solution containing approximately 5.75% available chlorine by weight—is a convenient, economical source of chlorine for water treatment in swimming and wading pools. Also, because this product is a liquid with no insoluble particles, it is especially suitable for this use.

In chlorinating wading pools, use 1/8 cup per 100 gallons of new water. Mix required amount of this product with 2 gallons of water and scatter over surface of pool. Mix uniformly with pool water. Between fillings of pool, add 1 tablespoon of this product per 100 gallons of water each day. Empty small pools daily. (This product will not harm plastic pools.)

Do not reenter pool until the chlorine residual is between 1 to 3 ppm.

The chart below is a guide to the amount of this product to add to various sized round pools. Add three-fourths -or- 3/4 ounce -or- [fl] oz of this product to every 100 gallons of pool water.

Pool Diameter Depth of Water	4 Ft	6 Ft	8 Ft	10 Ft	15 Ft
6 inches	1/16 cup	1/8 cup	1/4 cup	3/8 cup	3/4 cup
1 foot	1/8 cup	1/4 cup	1/2 cup	3/4 cup	1 5/8 cup
2 feet	1/4 cup	1/2 cup	1 cup	1 1/2 cup	3 1/4 cup
3 feet	3/8 cup	3/4 cup	1 1/2 cup	2 1/4 cup	5 cups

TABLE OF LIQUID MEASURES

3 tsp =	1 Tbsp =	1/2 ounce =	1/16 cup
16 Tbsp =	8 ounces =	1 cup =	1/2 pint

Stabilized pools must maintain a residual of 1.0 to 1.5 ppm available chlorine. Test the pH, available chlorine residual and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers.

CLB I (EPA Reg. No. 5813-XXX) FOR SWIMMING POOL DISINFECTION

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

This product is a 6.05% sodium hypochlorite solution containing approximately 5.75% available chlorine by weight. The purity of its ingredients and the carefully supervised process of its manufacture make this product a quality source of chlorine for water treatment in swimming and wading pools. This product is especially suitable for use in chlorinators as it is a liquid and has no insoluble particles. This product is widely used as a source of chlorine for swimming pool sanitation and does not have any adverse effects on materials used in pool construction including swimming pool liners.

For each new filling of your pool, use following initial dosages of this product.

Swimming Pool Size in Gallons	Initial Dosage of this product	Swimming Pool Size in Gallons	Initial Dosage of this product
5,000	3 cups	20,000	13 cups
6,000	4 cups	25,000	17 cups
8,000	5 cups	30,000	20 cups
10,000	6 cups	35,000	23 cups
15,000	10 cups		

NOTE: 2 cups = 1 pint; 4 cups = 1 quart; 16 cups = 1 gallon

To determine the volume of water in the pool when filled, figure 7 1/2 gallons of water for each cubic foot of pool capacity. One quart of this product per 6,000 gallons of water will supply approximately 2 ppm (parts per million) available chlorine, but this may dissipate rather rapidly in new water depending on the general sanitation conditions of the pool. Repeat dosage as needed to obtain 0.6 to 1.0 ppm available chlorine. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.

In chlorinating a swimming pool, mix the required amount of this product with 10 parts water and feed this solution through a chlorinator into the main water supply line to the pool. Adjust the feeding rate so the required quantity of this product will be added uniformly throughout the filling of the pool; or, if the water is circulated through a filter, add the bleach throughout one complete circulation. If this product cannot be fed into the main water supply line, mix 1/2 pint of this product with 5 gallons of water and scatter over a portion of the pool surface; repeat until the required amount of this product has been scattered over entire surface of the pool.

Check chlorine level in pool water at least daily with a pool testing kit and add this product as needed to maintain 0.6 to 1.0 ppm available chlorine. One pint of this product per 6,000 gallons of water will supply approximately 1.0 ppm available chlorine. Frequency of application of this dosage will vary depending on number of people using the pool, weather conditions (sunlight exposure) and general cleanliness of the pool area. Maintain the chlorine level for acid-stabilized pools at 1.0 to 1.5 ppm available chlorine.

Re-entry to treated pools is prohibited above 4 ppm due to risk of bodily harm.

Every 7 days, or as necessary, superchlorinate the pool with 100-200 oz of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Do not reenter pool until the chlorine residual is between 1 to 3 ppm.

The effectiveness of the chlorine is best when the pool water has a pH range of 7.2 to 7.6. The pH of the pool water must be checked daily using a pool pH testing kit and adjusted as necessary.

The regular use of this product, in the above proportions, in the swimming pool usually prevents the growth of algae in the water; however, if algae growth is causing the pool water to look cloudy and uninviting, it may be corrected by doubling the initial dosage of this product for a few treatments (2 quarts instead of 1 quart per 6,000 gallons of new water). Add the additional product to the pool in the evening after the pool is out of use so the excess chlorine will be dissipated before the pool is used again.

If algae are growing on the bottom or walls of the pool, scrub pool with a solution of 1/2 gallon of this product to 5 gallons of water applying solution with a fiber brush. Scrub the pool while wet and then rinse off after algae growth has been removed. Flush all of the growth and dirty solution from the pool with clear water before the pool is refilled. Avoid skin contact with undiluted product; if such contact occurs, rinse immediately with water. When added, this product has no deleterious effects on the eyes, nasal passages, or skin of people using the pool and will have no effect on swimming apparel.

CLB I (EPA Reg. No. 5813-XXX) DILUTION TABLE

To obtain a solution with an approximate available chlorine level (parts per million), thoroughly mix the indicated amounts of bleach and water. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Always test to ensure efficacy.

Approximate ppm Available Chlorine	Volume of this product	Volume of Water	Approximate ppm Available Chlorine	Volume of this product	Volume of Water
27000	1 part	1.2 parts	200	1 Tbsp	1 gallon
11,500	1 part	4 parts		5 oz	10 gallons
10,000	1 part	4.5 parts	150	2 tsp (1/3 oz)	1 gallon
8,200	1 part	6 parts		2 Tbsp (1 oz)	3 gallons
7,200	1 part	7 parts	100	2.5 oz	10 gallons
6,000	1 part	9 parts	50	3/4 tsp	1 gallon
2,300	1/2 cup (4 oz)	3/4 gallon		1 gallon	1,000 gallons
	1 cup (8 oz)	1.5 gallons	25	1/2 tsp	1.5 gallons
	2 cups (16 oz)	3 gallons		2.5 tsp	7 1/2 gallons
	1 part	24 parts	10	4 drops	1 quart
1800	1/2 cup (4 oz)	1 gallon		1/4 tsp	1.5 gallons
1500	2.5 gallons	97.5 gallons		16 drops	1 gallon
600	3 Tbsp (1.5 oz)	1 gal[lon]		220 oz	10,000 gallons
	13000 oz	10,000 gallons	5	2 drops	1 quart
500	1 part	120 parts		8 drops	1 gallon
450	1/2 cup (4 oz)	4 gallons		1/8 tsp	1.5 gallons
			0.5	12 oz	10,000 gallons

DILUTION TABLE: PPM (Parts Per Million Available Chlorine).
 Degrades with age and exposure to sunlight and heat. Check the level of available chlorine with a test kit.

1/3 oz this product (2 tsp) + 1 Gallon Water = 150 ppm
 [(Equivalent performance to 200 ppm [test] standard] for
 food contact surface sanitization)]

4 oz this product (1/2 cup) + 1 Gallon Water = 1800 ppm

4 oz this product (1/2 cup) + 3/4 Gallon Water = 2300 ppm

Table of Liquid Measures:

1 drop = 0.0017 oz

1 Tbsp = 3 tsp

1 oz = 2 Tbsp

1 cup = 8 oz

1 pint = 2 cups = 16 oz

1 quart = 4 cups = 2 pints = 32 oz

1 gallon = 4 quarts = 8 pints = 16 cups = 128 oz

Kamarei, Donna

From: Fuller, Demson
Sent: Thursday, December 22, 2016 1:04 PM
To: Kamarei, Donna; Chambliss, Benjamin; Henson, Wanda
Subject: FW: Clorox Reg. Nos. 5813-100, -111, -114

fyi

From: Mitchell, Emily
Sent: Tuesday, December 13, 2016 1:52 PM
To: Kyprianou, Rose <Kyprianou.Rose@epa.gov>; Fuller, Demson <Fuller.Demson@epa.gov>
Subject: FW: Clorox Reg. Nos. 5813-100, -111, -114

Rose:

Looking at Kristen's summary below, we can accept Clorox's explanation for comparison of data and move forward with their request. If you additional questions, please feel free to ask Kristen or myself.

Thanks

Emily Mitchell

Emily Mitchell, Branch Chief
Product Science Branch
Antimicrobials Division
Office of Chemical Safety and Pollution Prevention
Environmental Protection Agency
1200 Pennsylvania Ave., N.W. (7510P)
Washington, D.C. 20460
703-308-8583

Physical Address
One Potomac Yard
2777 Crystal Dr.
Arlington, VA 22202

From: Willis, Kristen
Sent: Tuesday, December 13, 2016 1:43 PM
To: Mitchell, Emily <Mitchell.Emily@epa.gov>
Subject: Clorox Reg. Nos. 5813-100, -111, -114

Hi Emily,

I reviewed the Clorox registration info for Reg. Nos. 5813-100, -111, -114. I spot checked the studies we discussed and compiled the data below:

Organism	MRID	Result	Formulation	MRID	Result	Formulation	Comment
S. aureus	49642002	1/60 0/60 0/60	No polymer	49602218	1/60 0/60 0.60	w/polymer & DADMAC	

P. aeruginosa	49642004	1/60 5/60 1/60	No polymer	49642010	1/60 3/60 1/60	w/polymer & DADMAC	
C. difficile	48484839	3 lots, > 6 log reduction	No polymer	49602208	3 lots, > 6 log reduction	w/polymer & DADMAC	
S. enterica (food contact)	48017522	3 lots, equiv. 200 ppm	No polymer	49602216	2 lots, equiv. 200ppm	w/polymer & DADMAC	Contact time was 1' for both

All studies were supported. I verified that the food contact test was really a 1' contact time based on the method. All of the alternate formulations had equivalent efficacy to sodium hypochlorite alone. One note, all of the selected comparison studies were for sodium hypochlorite + polymer + polyDADMAC.

Please let me know if I can provide additional information.

Thanks!

-Kristen

Kristen Willis, PhD
Senior Scientist
Product Science Branch
Antimicrobials Division
Office of Chemical Safety and Pollution Prevention
Environmental Protection Agency

Ph: 703-347-0515

Physical Address
One Potomac Yard
2777 Crystal Dr.
Arlington, VA 22202



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 30, 2016

J. Evelyn Lawson
Federal Registration Specialist
Clorox Professional Products Company
c/o PS&RC; P.O. Box 493
Pleasanton, CA 94566-0803

Dear Mr. Lawson:

The Agency has completed its review of your application and has previously communicated to you on November 10, and November 23, 2016, our pre-decisional determination that identified specific label changes that were necessary in order for the Agency to approve your application. Additionally, the agency received your latest response pertaining to the efficacy issue on November 15, 2016. After consideration, EPA's position on the efficacy issues are as follows (please refer to the Efficacy Review: T.Pham, *Efficacy_5813-RRU_D434671_CLBI_The Clorox Co*, and the November 23rd communication for the full list of issues):

- #7: On page 16 and 38, Kitchen Cloths sanitizing claims still need to be removed.
- Regarding the Sodium Hypochlorite Standard:
While the basic formulation for this product does conform to the formulation specified in the 1986 Hypochlorite standard, the alternate formulation of the product does not. The other ingredients [REDACTED]
[REDACTED] Efficacy data would need to be provided (or cited) to support the alternate formulation. This applies to:
 - #7: For wooden cutting board claims (pages 9, 10, 14, and 16).
 - #9 second bullet, #14 first bullet, #22 - sanitizing rinse claims.
 - #10 second bullet, #14 second bullet, #16 fourth bullet, #19, #22, #25 first bullet, #27 – Swimming pool, drinking water, emergency drinking water, animal drinking water, hot tubs, immersion tanks.
 - #11 – On page 18, “the bacteria that causes Legionnaires disease” needs to be removed.
 - #16-1 – On page 30, in the last bullet – need to remove “that can cause food borne illness,”
 - #17 – On page 31, the new footnotes need to be properly associated with “Streptocidal” and “Staphylocidal”.
 - #21 – Graphic on page 36 specifies hard, nonporous, but text on page 38 still needs to be changed.
 - #24 – incorrect change; washing contact time did not need to be changed. Disinfection instructions under “Metal incubators, feeders, water containers, and other poultry equipment and utensils” needs to have the 5- minute contact time.

Inert ingredient information may be entitled to confidential treatment

At this time, the label issues have not yet been resolved.

In accordance with Section 33(b)(3) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended by the Pesticide Registration Improvement Extension Act of 2012, your application was assigned a decision review time. The Agency has reviewed the application and has determined that the product Steroklor does not meet the criteria for registration under either FIFRA sec. 3(c)(5) or (7) without the specified label changes. This determination marks the end of the PRIA decision review period. Again, EPA is attaching to this letter a copy of the October 6, 2016 correspondence that identifies changes that must be made as well as the efficacy review that support the need for these label changes.

At this time you have three options:

- (a) Agree to all of the terms associated with the draft accepted label as revised by the Agency and request that it be issued as the accepted final Agency-stamped label; or
- (b) Do not agree to one or more of the terms of the draft accepted label as revised by the Agency and request additional time to resolve the difference(s); or
- (c) Withdraw the application without prejudice for subsequent resubmission, but forfeit the associated registration service fee.

If you inform EPA that you have concerns as described under (b) above, you have up to 30 calendar days from the date of this letter to reach agreement with the Agency on the final version of the label that the Agency will accept. If an agreement cannot be reached within those 30 days, EPA intends to proceed with denial of the application.

If you agree to all of the terms of the accepted label as described in (a) above, or if you and EPA resolve any differences as described in (b), you must submit a revised label to EPA. EPA will then provide you a stamped accepted final label within two (2) business days of receipt of your revised label.

If you have any questions, you may contact Donna Kamarei at (703) 347-0443 or via email at Kamarei.donna@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Wanda G. Fuller, for".

Demson Fuller, Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510P)
Office of Pesticide Programs



The Clorox Company

November 28, 2016



Mr. Demson Fuller, Product Manager 32
U.S. Environmental Protection Agency
Office of Pesticide Programs -7504P
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Re: Terms of Registration for CLB I, EPA File Symbol 5813-RRU

The Clorox Company ("Clorox") requests the Agency to accept the following Terms of Registration related to Emerging Pathogen claims for CLB I, EPA File Symbol 5813-RRU per Agency guidance dated August 19, 2016, "Guidance to Registrants: Process for Making Claims Against Emerging Viral Pathogens not on EPA-Registered Disinfectant Labels."

Consistent with the guidance, CLB I, EPA File Symbol 5813-RRU qualifies for emerging pathogen claims against:

- Enveloped viruses
- Large non-enveloped viruses
- Small non-enveloped viruses

The criteria and qualifying viruses are as follows:

For an emerging virus that is a/an:	Criteria for qualifying to make claims	Qualifying organisms:
Enveloped virus	At least one large or one small non-enveloped virus	<u>One of the following:</u> Rotavirus Adenovirus Hepatitis A Virus Rhinovirus type 37 Canine Parvovirus Feline Parvovirus Enterovirus D68 Feline Calicivirus (as surrogate for Norovirus) Murine Norovirus Poliovirus
Large non-enveloped virus	At least one small non-enveloped virus	<u>One of the following:</u> Hepatitis A Virus Rhinovirus type 37 Canine Parvovirus Feline Parvovirus Enterovirus D68 Feline Calicivirus (as surrogate for Norovirus) Murine Norovirus Poliovirus
Small non-enveloped virus	At least two small non-enveloped viruses	<u>Two of the following:</u> Hepatitis A Virus Rhinovirus type 37 Canine Parvovirus Feline Parvovirus Enterovirus D68 Feline Calicivirus (as surrogate for Norovirus) Murine Norovirus Poliovirus

Clorox acknowledges the following conditions:

1) The statements will be used only through the following communications outlets: technical literature which is distributed exclusively to health care facilities, physicians, nurses, and public health officials, "1-800" consumer information services, social media sites and company websites (non-label related). These statements shall not appear on marketed (final print) product labels.

2) Statements will adhere to one or both of the following formats:

This product has demonstrated effectiveness against viruses similar to *Insert name of emerging virus* on hard, non-porous surfaces. Therefore, *This product* can be used against *Insert name of emerging virus* when used in accordance with the directions for use against *Insert name of supporting virus(es)* on hard, non-porous surfaces. Refer to the *Insert CDC -or- OIE* website at *Insert pathogen-specific website address* for additional information.

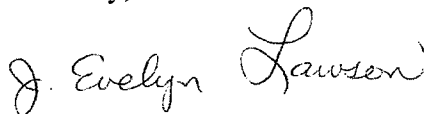
Insert name of illness/outbreak is caused by *Insert name of emerging virus*. *This product* kills similar viruses and therefore can be used against *Insert name of emerging virus* when used in accordance with the directions for use against *Insert name of supporting virus(es)* on hard, non-porous surfaces. Refer to the *Insert CDC -or- OIE* website at *Insert pathogen-specific website address* for additional information.

3) The registrant (Clorox) may begin communicating these statement(s) upon notification on the CDC or OIE website identified under Section V of the Guidance of an outbreak of an emerging [small non-enveloped, large non-enveloped, and/or enveloped] viral pathogen. The registrant (Clorox) shall cease and remove all such non-label communications intended for consumers no later than 24 months after the original notification of the outbreak on the CDC or OIE website, unless the agency provides guidance to the contrary due to continued public health concerns. The emerging pathogen claim language may remain on the master label.

4) The terms stated in items 1-3 shall become immediately void and ineffective if registration for use against the supporting viruses in the above table is suspended or cancelled such that the product no longer qualifies for the emerging pathogens claim, or no longer meets the criteria for a disinfectant claim. In addition, evidence of ineffectiveness against any pathogen in a less-resistant Spaulding category would also be grounds for voiding paragraphs 1-3.

Upon approval of these Terms of Registration and the corresponding master label claims for emerging pathogens, Clorox will be authorized to use the claims as described in the event of an applicable disease outbreak.

Sincerely,



J. Evelyn Lawson
Federal Registration Specialist
The Clorox Company
CTCPSERC@Clorox.com



The Clorox Company

November 28, 2016



Mr. Demson Fuller, Product Manager 32
U.S. Environmental Protection Agency
Office of Pesticide Programs -7504P
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

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2) Statements will adhere to one or both of the following formats:

This product has demonstrated effectiveness against viruses similar to *Insert name of emerging virus* on hard, non-porous surfaces. Therefore, *This product* can be used against *Insert name of emerging virus* when used in accordance with the directions for use against *Insert name of supporting virus(es)* on hard, non-porous surfaces. Refer to the *Insert CDC -or- OIE* website at *Insert pathogen-specific website address* for additional information.

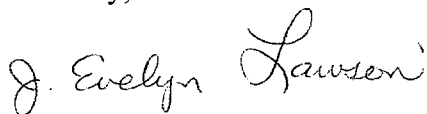
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Upon approval of these Terms of Registration and the corresponding master label claims for emerging pathogens, Clorox will be authorized to use the claims as described in the event of an applicable disease outbreak.

Sincerely,



J. Evelyn Lawson
Federal Registration Specialist
The Clorox Company
CTCPSERC@Clorox.com

Kamarei, Donna

From: Evelyn Lawson <Evelyn.Lawson@clorox.com>
Sent: Tuesday, November 29, 2016 7:16 PM
To: Kamarei, Donna
Cc: Fuller, Demson
Subject: 5813-RRU: PRIA deadline
Attachments: removed.txt

Hi Donna and Demson,

We realize that the PRIA deadline is due tomorrow (11/30/2016). We request to extend it an additional 30 days, as we are allowed.

Please let me know what additional document you may need for me.

Thanks,
Evelyn

J. Evelyn Lawson
Federal Registration Specialist
The Clorox Company
925-368-9026



This e-mail (including any attachments) may contain information confidential to The Clorox Company and is intended only for the use of the intended recipient(s). If the reader of this message is not the intended recipient(s), you are notified that you have received this message in error and that any review, dissemination, distribution or copying of this message is strictly prohibited. If you have received this message in error, please delete this message and notify the sender immediately.

15813-RRU
Efficacy Comment
Nov 30, 2016

In addition, I am attaching a revised emerging pathogen claims terms letter, revised per item 5.

In the emerging pathogen claims terms letter, the last sentence needs to be clarified further as follows:
"24 months, from the original notification of the outbreak on the CDC or OIE website, unless the agency provides evidence to the contrary due to continued health concerns."

We made changes to item 7 except for wooden cutting boards; the wooden cutting boards is listed in the Hypochlorite Standard, 1986 as "Sanitization of Porous Food Contact Surfaces". Other items we are relying on the hypochlorite standard are items #9 2nd bullet, #10 2nd bullet, 14, #16 3rd and 4th bullets, 19, 22, 23, #25 1st bullet, 27.

- #7: On page 16 and 38, Kitchen Cloths sanitizing claims still need to be removed.

Regarding the Sodium Hypochlorite Standard:

While the basic formulation for this product does conform to the formulation specified in the 1986 Hypochlorite standard, the alternate formulation of the product does not. The other ingredients [REDACTED]

[REDACTED] Efficacy data would need to be provided (or cited) to support the alternate formulation. This applies to:

- #7: For wooden cutting board claims (pages 9, 10, 14, and 16)
- #9 second bullet, #14 first bullet, #22 - sanitizing rinse claims
- #10 second bullet, #14 second bullet, #16 fourth bullet, #19, #22, #25 first bullet, #27 - Swimming pool, drinking water, emergency drinking water, animal drinking water, hot tubs, immersion tanks

#12: we do not agree to remove feline calicivirus from the label (item 7 a (ii), because MRID was tested with three batches, and we only need to test 2 batches. Batches 09PUMA2 and 09PUMA3 were conducted at the LCL. The Data Evaluation Record was never updated to show that MRID 48017514 was indeed acceptable.

This is acceptable.

We made changes in Items 6, 8, #9 1st bullet, #15 1st bullet, 11, 13, 15, #16 1st, 2nd, 5th, and 6th bullets, 17, 18, 20, 21, 24, #25 2nd and 3rd bullets, and 26.

- #11 - On page 18, "the bacteria that causes Legionnaires disease" needs to be removed
- #16-1 - On page 30, in the last bullet - need to remove "that can cause food borne illness,"
- #17 - On page 31, the new footnotes need to be properly associated with "Streptocidal" and "Staphylocidal"
- #21 - Graphic on page 36 specifies hard, nonporous, but text on page 38 still needs to be changed.
- #24 - incorrect change; washing contact time did not need to be changed. Disinfection instructions under "Metal incubators, feeders, water containers, and other poultry equipment and utensils" needs to have the 5- minute contact time.

Note to PM:

On page 26 - do we allow the use of the term "safe"?

Inert ingredient information may be entitled to confidential treatment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460



OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Antimicrobial Division

October 26, 2016

DP BARCODE: 434673

MRID(s): 482169-01,-02,-03,-04, 480175-02,-03

SUBJECT: CLB I

REG. NO. OR FILE SYMBOL: 5813-RRU

DOCUMENT TYPE: Acute Toxicity Review

Manufacturing-use ☐ **OR** **End-use Product** ☒

INGREDIENTS:

PC Code(s)	CAS Number(s)	Active Ingredient(s)
014703	7681-52-9	Sodium Hypochlorite

TEST LAB: Eurofins PSL

SUBMITTER: The Clorox Company

GUIDELINE(s): 870.1100, 870.1200, 870.1300, 870.2400, 870.2500, 870.2600.

COMMODITIES: N/A

REVIEWER: Boris S. Yurchak **ORGANIZATION:** AD/PSB/CTT

APPROVER: Jenny J. Tao **APPROVED DATE:** 10/26/2016

COMMENT: This product is for food and non-food use

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460



OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Antimicrobial Division

October 26, 2016

MEMORANDUM

SUBJECT: Acute Toxicity Review for EPA Reg. No. 5813-RRU
Product Name: CLB I
DP Barcode: 434673

TO: Demson Fuller / Srinivas Gowda / Donna Kamarei
PM 32
Risk Management Branch II
Antimicrobials Division (7510P)

FROM: Boris S. Yurchak, Chemist
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

A handwritten signature in black ink, likely belonging to Boris S. Yurchak.

THRU: Jenny J. Tao, Sr. Toxicologist
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

A handwritten signature in black ink, likely belonging to Jenny J. Tao.

APPLICANT: The Clorox Company
Action code: (A540) New product
Due out date: October 31, 2016

PRODUCT FORMULATION FROM LABEL:

<u>Active Ingredient(s):</u>	<u>% by wt.</u>
Sodium Hypochlorite*	6.05
<u>Other Ingredient(s)</u>	<u>93.95</u>
TOTAL	100.00

*) Yields 5.75% available chlorine

BACKGROUND:

The registrant is submitting 3 acute toxicity studies to support the registration of the subject product, Frozen, EPA Reg. No. **5813-RRU**. MRID's are as follows: 482169-01 (870.1100), 482169-02 (870.1200) and 480175-02 (870.1300). The studies were conducted by Eurofins PSL. The test material used in the studies was Puma containing ~11% of Sodium Hypochlorite (870.1100 and 870.1200) and ~10% (870.1300) of Sodium Hypochlorite. For Eye irritation (870.2400), Dermal Irritation (870.2500) and Dermal Sensitization (870.2600), the registrant provided waiver requests in MRIDs 482169-03, 482169-04 and 480175-03, respectively. The product is a water-based formulation aimed for disinfection of food and non-food items.

The data package included:

1. Cover letter from Registrant to EPA, dated 06/06/2016.
2. Application for Pesticide, Form 8570-1, dated 06/06/2016.
3. Basic and alternate (A01) Confidential Statements of Formula (CSF), both dated 06/02/2016.
4. Data Matrix, dated 06/06/2016.
5. Proposed Label, dated 06/09/2016.
6. Transmittal document, dated 06/06/2016.

FINDINGS:

1. The acute toxicity studies cited were previously reviewed by AD on 10/15/2010 under DP382375 and were found to be acceptable for the product 5813-RNN. Since the test product contains greater concentration of the active ingredient than the subject product (10-11% vs 6.05%), the toxicity profile of subject product can be extracted from the same of the test substance.
2. The waiver requests for Primary Eye (870.2400) and Dermal (870.2500) irritations were previously granted under the review listed above.
3. The waiver request for Skin Sensitization study (870.2600) is granted based on previously evaluated the non-sensitization property of the product Ultra Clorox Brand 6.15%, EPA Reg. No. 5813-52 upon a CTT review of MRID 46672302 under DP 323267 on 01/20/2006.
4. The acute toxicity profile for EPA Reg. No. **5813-RRU** is currently:

GRN	Study	MRID	Toxicity Category	Status
870.1100	Acute Oral Toxicity	48216901	IV	Cited
870.1200	Acute Dermal Toxicity	48216902	IV	Cited
870.1300	Acute Inhalation Toxicity	48017502	IV	Cited
870.2400	Primary Eye Irritation	48216903	I	Waived/Cited
870.2500	Primary Dermal Irritation	48216904	I	Waived/Cited
870.2600	Dermal Sensitization	48017503	<i>Not a sensitizer</i>	Waived

CONCLUSION:

The acute toxicity requirements have been satisfied for the subject product EPA Reg. No. **5813-RRU**.

LABELING:

ID #: EPA Reg. No.: 5813-RRU / CLB I

SIGNAL WORD: DANGER

RESTRICTED USE CLASSIFICATION TRIGGERED:

The criteria for Restricted Use Classification have been met due to Toxicity Category I for primary eye and dermal irritations.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS:

Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. Wear coveralls worn over long-sleeved shirt and long pants, socks, and chemical-resistant boots, and waterproof gloves (Barrier Laminate, or Butyl Rubber, or Nitrile Rubber, or Neoprene Rubber, or Natural Rubber, or Polyethylene or Polyvinyl Chloride (PVC), or Viton, selection Category A). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact [insert phone number 1-800-xxx-xxxx] for emergency medical treatment information.

NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage.

Note to PM/CRM/Registrant:

The proposed label should contain a Note to Physician which addresses the Toxicity Category I for primary eye and dermal irritations. The following statements are suggested types of information that may be included, if applicable:

- technical information on symptomatology;
- use of supportive treatments to maintain life functions;
- medicine that will counteract the specific physiological effects of the pesticide;
- company telephone number to specific medical personnel who can provide specialized medical advice.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL
SAFETY AND POLLUTION
PREVENTION

MEMORANDUM

DATE: November 10, 2016

SUBJECT: Efficacy Review for CLB 1
EPA Reg. No. 5813-RRU
DP Barcode: 434671

FROM: Thao Pham
Efficacy Evaluation Team
Product Science Branch
Antimicrobials Division (7510P)

THRU: Mark Perry, Team Leader
Efficacy Evaluation Team
Product Science Branch
Antimicrobials Division (7510P)

TO: Demson Fuller, PM 32
Regulatory Management Branch II
Antimicrobials Division (7504P)

APPLICANT: The Clorox Company
c/o PS&RC
P.O. Box 493
Pleasanton, CA 94566-0803 Reckitt Benckiser

Thao Pham

Mark Perry

Formulation from the Label:

<u>Active Ingredient</u>	<u>% by wt.</u>
Sodium hypochlorite	6.05%
<u>Other Ingredients</u>	93.95%
Total	100.00%

Yields 5.75% available chlorine

I BACKGROUND

The product, CLB I (EPA Reg. No. 5813-RRU) is a new product submitted for registration as a hard surface disinfectant (bactericide, virucide, fungicide, tuberculocide, and sporicide (against *Clostridium difficile* spores)) and as a sanitizer for use in the wash cycle on laundry, and on hard, nonporous food and nonfood contact surfaces in residential and institutional settings. The studies were conducted at Accuratus Lab Services, located at 1285 Corporate Center Drive, Suite 110, Eagan, MN 55121 and MicroBioTest (A Division of Microbac Laboratories, Inc.), 105 Carpenter Drive, Sterling, VA 20164.

This data package contained a letter from the applicant to EPA (dated June 6, 2016), EPA Form 8570-1 (Application for Pesticide), EPA Form 8570-34 (Certification with Respect to Citation of Data), EPA Form 8570-35 (Data Matrix), 24 new studies (MRID Nos. 49913504 through 49913526), Statements of No Data Confidentiality Claims for each study, and the proposed label.

II USE DIRECTIONS

The product is for disinfecting and sanitizing hard, non-porous surfaces. The label indicates the product may be used on glass, glazed ceramic tile, glazed porcelain, plastic laminate, linoleum, and vinyl. Directions on the proposed label provide the following information regarding preparation and use of the product:

To disinfect Hard, Nonporous Surfaces:

Use 1/2 cup of this product per 1 -or- 3/4 gallon of water. [Pre]wash surface -or- item, then apply disinfecting or- bleach solution. Let stand 5 min[utes]. Rinse [thoroughly -or- well] and air dry. -

To sanitize:

Food Contact Surfaces -or- To sanitize (insert item from List 6: Food Contact Sanitization Use Sites): Use 1 Tablespoon -or- Tbsp of this product per gallon of water to prepare a 200 ppm available chlorine solution. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Let stand 2 min[utes]. Air dry.

Non-Food Contact Surfaces -or- To sanitize (insert item from List 5: Hard, Nonporous Use Sites): Use 1/2 cup of this product per 3/4 gallon of water. Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Let stand 2 min[utes]. Air dry.

III AGENCY STANDARDS FOR PROPOSED CLAIMS

Disinfectants for Use on Hard Surfaces in Hospital or Medical Environments

The effectiveness of disinfectants for use on hard surfaces in hospital or medical environments must be substantiated by data derived using the AOAC Use-Dilution Method (for water soluble powders and liquid products) or the AOAC Germicidal Spray Products as Disinfectants Method (for spray products) or the AOAC Hard Surface Carrier Test. Sixty carriers must be tested with

each of 3 product samples, each with an active ingredient level at (or below) the lower certified limit, as specified on the Confidential Statement of Formula (CSF), representing 3 different batches against a mean log density of at least 6 for *Staphylococcus aureus* (ATCC 6538) and *Pseudomonas aeruginosa* (ATCC 15442). To support products labeled as “disinfectants” killing on 59 out of 60 carriers for germicidal spray testing is required to provide effectiveness at the 95% confidence level. To pass performance requirements when using AOAC Hard Surface Carrier Test, tests must result in killing in 58 out of each set of 60 carriers for *Staphylococcus aureus* ATCC 6538; 57 out of each set of 60 carriers for *Pseudomonas aeruginosa* (ATCC 15442) within ten minutes. For AOAC Use-Dilution testing, testing for each lot should be conducted on a different day. Thus, a total of three tests for *Staphylococcus aureus* and three tests for *Pseudomonas aeruginosa* are necessary. Sixty carriers are required per test, without contamination in the subculture media. The performance standard for *Staphylococcus aureus* is 0-3 positive carriers out of sixty. The performance standard for *Pseudomonas aeruginosa* is 0-6 positive carriers out of sixty. To be deemed an effective product, the product must pass all tests for both microbes.

Disinfectants for Use on Hard Surfaces in Hospital or Medical Environments (Additional Bacteria)

Effectiveness of disinfectants against specific bacteria other than those named in the AOAC Use-Dilution Method, AOAC Germicidal Spray Products as Disinfectants Method, AOAC Fungicidal Test, and AOAC Tuberculocidal Activity Method, must be determined by either the AOAC Use-Dilution Method or the AOAC Germicidal Spray Products as Disinfectants Method. Ten carriers must be tested against each specific microorganism with each of 2 product samples, representing 2 different product lots. To support products labeled as “disinfectants” for specific bacteria (other than those bacteria named in the above test methods), killing of the specific microorganism on all carriers is required.

Virucides

The effectiveness of virucides against specific viruses must be supported by efficacy data that simulates, to the extent possible in the laboratory, the conditions under which the product is intended to be used. Carrier methods that are modifications of either the AOAC Use-Dilution Method (for liquid disinfectants) or the AOAC Germicidal Spray Products as Disinfectants Method (for spray or towelette disinfectants) must be used. To simulate in-use conditions, the specific virus to be treated must be inoculated onto hard surfaces, allowed to dry, and then treated with the product according to the directions for use on the product label. One surface for each of 2 different product lots of disinfectant must be tested against a recoverable virus titer of at least 10^4 from the test surface for a specified exposure period at room temperature. Then, the virus must be assayed by an appropriate virological technique, using a minimum of four determinations per each dilution assayed. Separate studies are required for each virus. The calculated viral titers must be reported with the test results. For the data to be considered acceptable, results must demonstrate complete inactivation of the virus at all dilutions. When cytotoxicity is evident, at least a 3-log reduction in titer must be demonstrated beyond the cytotoxic level.

Sanitizers (For Non-Food Contact Surfaces)

The effectiveness of sanitizers for hard, non-food contact surfaces must be supported by data that show the product will substantially reduce the numbers of test bacteria on a treated surface

over those on an untreated control. The Agency recommends the use of ASTM E1153. The test surface(s) should represent the type(s) of surfaces recommended for treatment on the label, i.e., porous or non-porous. Products that are represented as "one-step sanitizers" should be tested with an appropriate organic soil load, such as 5% serum. Each lot of product must have an active ingredient concentration less than or equal to the lower certified limit (LCL) as noted on the Confidential Statement of Formula (CSF). Tests should be performed with each of three product samples, representing 3 different product lots against *Staphylococcus aureus* (ATCC 6538) and either *Klebsiella pneumoniae* (ATCC 4352) or *Enterobacter aerogenes* (ATCC 13048). Results must show a bacterial reduction of at least 99.9% over the parallel control within five minutes.

Supplemental Claims

An antimicrobial agent identified as a "one-step" disinfectant or as effective in the presence of organic soil must be tested for efficacy with an appropriate organic soil load, such as 5% serum.

Any product that bears label claims for effectiveness in hard water should be tested by the appropriate method which has been modified to demonstrate effectiveness of the product in synthetic hard water at the level claimed. The hard water tolerance level may differ with the level of antimicrobial activity claimed (e.g., sterilization, disinfection, or sanitization).

IV SYPNOSIS OF THE SUBMITTED EFFICACY STUDIES

1. MRID 49913503 "CLB I Supplemental Efficacy Discussion" for EPA File Symbol 5813-RRU, by Julie Timberman. Study completion date – May 25, 2016.

This study is provided as a summary of the registrant's approach for data citation from EPA Reg. No. 5813-100 to support this product. The applicant is requesting to cite efficacy data to support: sporicidal, bacterial disinfection (base and additional organisms), virucidal, tuberculocidal, fungicidal, non-food contact sanitization, and laundry sanitization.

2. MRID 49913504 "AOAC Available Chlorine in Disinfectants, Test Organism: *Salmonella enterica* subspecies *enterica* servovar Typhi (ATCC 6539)" for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Matthew Sathe. Study conducted at Accuratus Lab Services. Study completion date – March 4, 2016. Project Number A19863.

This study was conducted against *Salmonella enterica* subspecies *enterica* servovar Typhi (ATCC 6539). Three batches (15SSB1, 15SSB2, and 15SSB3) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18111715.AVC.1. All batches meet EPA's criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted 1:381, with 1 part test substance + 380 parts 100 ppm AOAC synthetic hard water. Sodium hypochlorite concentration and pH were determined. NaOCl control solutions of 200, 100, and 50 ppm available chlorine were prepared. An initial broth suspension was inoculated from stock and subcultured using a daily transfer of the test organism. The final test culture was incubated 18-24 hours at 35-37°C, vortex mixed, and allowed to stand ≥10 minutes prior to use. Fetal bovine serum was added to the culture to achieve a 5% organic soil load. Test substances and control solutions were equilibrated 20.0°C for ≥10

min. A 50 µL aliquot of test organism suspension was added to 10 mL of test solution and NaOCl control solutions. After one minute, 10 µL of each culture/solution mixture was transferred into 10 mL Letheen Broth with 0.1% sodium thiosulfate to neutralize. Each tube was then challenged with an additional 50 µL aliquot of the test suspension 30 seconds after subculturing. One minute later, 10 µL of each inoculated suspension was transferred to a second tube with 10 mL Letheen Broth with 0.1% sodium thiosulfate to neutralize. This was repeated for a total of 10 replicates on each test substance and control. Test and control subcultures were then incubated 48±2 hours at 35-37°C. Following incubation, subcultures were examined for the presence or absence of visible growth. Those showing growth were subcultured and incubated for 1 day at 35-37°C before visual examination, gram staining, and biochemical assay to confirm or rule out test organism presence. Controls included those for purity, sterility, viability, neutralization confirmation, and initial suspension count.

3. MRID 49913505 “AOAC Available Chlorine in Disinfectants, Test Organism: *Salmonella enterica* subspecies *enterica* servovar Typhi (ATCC 6539)” for CLB, FIS2015.0212 and CLB I, FIS2015.0320, by Becky Lien. Study conducted at Accuratus Lab Services. Study completion date – May 4, 2016. Project Number A20126.

This study was conducted against *Salmonella enterica* subspecies *enterica* servovar Typhi (ATCC 6539). Two batches (15SSB4 and 15SSB5) of the product, CLB, FIS2015.0212, et al, were tested using Accuratus Lab Services Protocol No. CX180111516.AVC.1. All batches meet EPA’s criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted with 1 part test substance + 380 parts 100 ppm AOAC synthetic hard water. NaOCl control solutions of 200, 100, and 50 ppm available chlorine were prepared. An initial broth suspension was inoculated from stock and subcultured using a daily transfer of the test organism. The final test culture was incubated 18-24 hours at 35-37°C, vortex mixed, and allowed to stand ≥10 minutes prior to use. No organic soil load was added. Test substances and control solutions were equilibrated 20.0°C for ≥10 min. A 50 µL aliquot of test organism suspension was added to 10 mL of test solution and NaOCl control solutions. After one minute, 10 µL of each culture/solution mixture was transferred into 10 mL Letheen Broth with 0.1% sodium thiosulfate to neutralize. Each tube was then challenged with an additional 50 µL aliquot of the test suspension 30 seconds after subculturing. One minute later, 10 µL of each inoculated suspension was transferred to a second tube with 10 mL Letheen Broth with 0.1% sodium thiosulfate to neutralize. This was repeated for a total of 10 replicates on each test substance and control. Test and control subcultures were then incubated 48±2 hours at 35-37°C. Following incubation, subcultures were stored for two days and examined for the presence or absence of visible growth. Those showing growth were subcultured and incubated for 1 day at 35-37°C before visual examination, gram staining, and biochemical assay to confirm or rule out test organism presence. Controls included those for purity, sterility, viability, neutralization confirmation, and initial suspension count.

4. MRID 49913506 “AOAC Available Chlorine in Disinfectants, Test Organism: *Yersinia enterocolitica* (ATCC 23715)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Maggie Brusky. Study conducted at Accuratus Lab Services. Study completion date – May 3, 2016. Project Number A20439.

This study was conducted against *Yersinia enterocolitica* (ATCC 23715). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18120715.AVC.2. All batches meet EPA’s criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted 1:381, with 1 part test substance + 380 parts 100 ppm AOAC synthetic hard water. NaOCl control solutions of 200, 100, and 50 ppm available chlorine were prepared. Sufficient agar plates were inoculated from stock test organism and incubated 2 days at 35-37°C. The organism was then suspended in diluent to match a 1.0 McFarland turbidity standard. Final test culture was thoroughly mixed prior to use. No organic soil load was added. Test substances and control solutions were equilibrated 20.0°C for ≥10 min. A 50 µL aliquot of test suspension was added to 10 mL of test solution and NaOCl control solutions. After one minute, 10 µL of each culture/solution mixture was transferred into 10 mL Lethen Broth with 0.1% sodium thiosulfate to neutralize. Each tube was then challenged with an additional 50 µL aliquot of the test suspension 30 seconds after subculturing. One minute later, 10 µL of each inoculated suspension was transferred to a second tube with 10 mL Lethen Broth with 0.1% sodium thiosulfate to neutralize. This was repeated for a total of 10 replicates on each test substance and control. They were then incubated 48±2 hours at 35-37°C. Following incubation, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and initial suspension count.

5. MRID 49913507 “AOAC Use-Dilution Method, Test Organism: *Bordetella pertussis* (ATCC 12743)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Becky Lien. Study conducted at Accuratus Lab Services. Study completion date – February 4, 2016. Project Number A20000.

This study was conducted against *Bordetella pertussis* (ATCC 12743). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18120715.UD.8. All batches meet EPA’s criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 5.0 mL test substance with 160.0 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. Agar plates were prepared from stock test organism and incubated 4 days at 35-37°C. Following incubation, the test organism was suspended in Butterfield’s buffer to match a 3.0 McFarland turbidity standard. Final test culture was mixed thoroughly prior to use. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried for 38 minutes at 36.3-36.5°C and 50.5% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 20.0°C. Following exposure, individual carriers were transferred to 10 mL of Lethen Broth + 0.1% Sodium Thiosulfate. Subcultures were sonicated and transferred to a 0.45 µm porosity filter membrane, pre-wetted with 10.0 mL saline and filtered with a vacuum pump. Each membrane was washed with ≥50 mL saline and placed on an agar

plate for test organism recovery. All subcultures incubated 5 days at 35-37°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

6. MRID 49913508 “AOAC Use-Dilution Method, Test Organism: *Campylobacter jejuni* (ATCC 29428)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Becky Lien. Study conducted at Accuratus Lab Services. Study completion date – May 2, 2016. Project Number A19996.

This study was conducted against *Campylobacter jejuni* (ATCC 29428). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18120715.UD.5. All batches meet EPA’s criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 5.0 mL test substance with 160.0 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. Test organism was prepared from stock plates and incubated under microaerophilic conditions for 3 days at 35-37°C. Colonies were suspended and collected before obtaining a spectrophotometer reading of 0.543 at 620 nm. The final test culture was mixed thoroughly prior to use. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried for 38 minutes at 27.2-27.5°C and 61% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 20.0°C. Following exposure, individual carriers were transferred to 10 mL of Letheen Broth + 0.14% Lecithin + 0.1% Sodium Thiosulfate to neutralize. Subcultures were sonicated and transferred to a 0.45 µm porosity filter membrane, pre-wetted with 10.0 mL saline and filtered with a vacuum pump. Each membrane was washed with ≥50 mL saline and placed on an agar plate for test organism recovery. All subcultures incubated 4 days at 35-37°C under microaerophilic conditions. Following incubation, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

7. MRID 49913509 “AOAC Use-Dilution Method, Test Organism: Carbapenem Resistant *Escherichia coli* (CDC 81371)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Becky Lien. Study conducted at Accuratus Lab Services. Study completion date – February 19, 2016. Project Number A19995.

This study was conducted against Carbapenem Resistant *Escherichia coli* (CDC 81371). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18120715.UD.3. All batches meet EPA’s criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 5.0 mL test substance with 160.0 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. A loopful of stock slant culture was transferred to an initial 10 mL tube of growth medium, mixed, and incubated 24±2 hours at 35-37°C. A 10 µL aliquot was then transferred to 10 mL of culture

medium (#1 transfer). The final test culture was incubated for 48-54 hours at 35-37°C, vortex mixed (3-4 seconds), and allowed to stand for ≥10 minutes before use. The test organism was diluted by adding 10.0 mL of test organism suspension to 20.0 mL of sterile growth medium. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 36.7°C and 52.6% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 19.5°C. Following exposure, individual carriers were transferred to 10 mL of Lethen Broth + 0.1% Sodium Thiosulfate to neutralize. All subcultures incubated 48±2 hours at 35-37°C. Subcultures were stored 2 days at 2-8°C. Following incubation and storage, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

Note: Antibiotic sensitivity testing was performed using a representative culture from the day of testing and verified the antibiotic resistance pattern of the test organism.

8. MRID 49913510 “AOAC Use-Dilution Method, Test Organism: *Enterococcus faecalis* (ATCC 29212)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Becky Lien. Study conducted at Accuratus Lab Services. Study completion date – February 18, 2016. Project Number A19999.

This study was conducted against *Enterococcus faecalis* (ATCC 29212). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18120715.UD.7. All batches meet EPA’s criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 5.0 mL test substance with 160.0 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. A loopful of stock slant culture was transferred to an initial 10 mL tube of growth medium, mixed, and incubated 24±2 hours at 35-37°C. A 10 µL aliquot was then transferred to 10 mL of culture medium (#1 transfer). The final test culture was incubated for 48-54 hours at 35-37°C, vortex mixed (3-4 seconds), and allowed to stand for ≥10 minutes before use. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 36.6-36.7°C and 50.1% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 19.5°C. Following exposure, individual carriers were transferred to 10 mL of Lethen Broth + 0.1% Sodium Thiosulfate to neutralize. All subcultures incubated 48±2 hours at 35-37°C. Subcultures were stored 2 days at 2-8°C. Following incubation and storage, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

9. MRID 49913511 “AOAC Use-Dilution Method, Test Organism: *Klebsiella oxytoca* (ATCC 13182)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Melissa Bruner. Study conducted at Accuratus Lab Services. Study completion date – March 7, 2016. Project Number A20216.

This study was conducted against *Klebsiella oxytoca* (ATCC 13182). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18120715.UD.9. All batches meet EPA’s criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 4.0 mL test substance with 128.0 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. A loopful of stock slant culture was transferred to an initial 10 mL tube of growth medium, mixed, and incubated 24±2 hours at 35-37°C. A 10 µL aliquot was then transferred to 10 mL of culture medium (#1 transfer). The final test culture was incubated for 48-54 hours at 35-37°C, vortex mixed (3-4 seconds), and allowed to stand for ≥10 minutes before use. The upper portion of culture was removed, pooled and mixed. The culture was diluted by combining 1.50 mL test organism with 36.0 mL sterile growth medium. The final test culture was mixed thoroughly prior to use. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 36.5°C and 52.6% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 20.0°C. Following exposure, individual carriers were transferred to 10 mL of Lethen Broth + 0.07% Lecithin + 0.5% Tween 80 to neutralize. All subcultures incubated 48±2 hours at 35-37°C. Following incubation, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

10. MRID 49913512 “AOAC Use-Dilution Method, Test Organism: *Listeria monocytogenes* (ATCC 19117)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Becky Lien. Study conducted at Accuratus Lab Services. Study completion date – February 18, 2016. Project Number A20001.

This study was conducted against *Listeria monocytogenes* (ATCC 19117). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18120715.UD.4. All batches meet EPA’s criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 5.0 mL test substance with 160.0 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. A loopful of stock slant culture was transferred to an initial 10 mL tube of growth medium, mixed, and incubated 24±2 hours at 35-37°C. A 10 µL aliquot was then transferred to 10 mL of culture medium (#1 transfer). The final test culture was incubated for 48-54 hours at 35-37°C, vortex mixed (3-4 seconds), and allowed to stand for ≥10 minutes before use. The upper portion of culture was removed, pooled and mixed. The culture was diluted by combining 8.0 mL test organism with 24.0 mL sterile growth medium. The final test culture was mixed thoroughly prior to use. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier

per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 36.5-36.7°C and 53.2% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 20.0°C. Following exposure, individual carriers were transferred to 10 mL of Brain Heart Infusion Broth to neutralize. Approximately 25-60 minutes later, carriers were transferred into an additional 10 mL of the same neutralizer. All subcultures incubated 48±2 hours at 35-37°C. Subcultures were stored 2 days at 2-8°C. Following incubation, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

11. MRID 49913513 “AOAC Use-Dilution Method, Test Organism: Multi-drug Resistant (MDR) *Enterococcus faecium* (ATCC 51559)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Becky Lien. Study conducted at Accuratus Lab Services. Study completion date – February 18, 2016. Project Number A19997.

This study was conducted against Multi-drug Resistant (MDR) *Enterococcus faecium* (ATCC 51559). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18120715.UD.6. All batches meet EPA's criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 5.0 mL test substance with 160.0 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. A loopful of stock slant culture was transferred to an initial 10 mL tube of growth medium, mixed, and incubated 24±2 hours at 35-37°C. A 10 µL aliquot was then transferred to 10 mL of culture medium (#1 transfer). The final test culture was incubated 48-54 hours at 35-37°C, vortex mixed (3-4 seconds), and allowed to stand for ≥10 minutes before use. The upper portion of culture was removed, pooled and mixed. The final test culture was mixed thoroughly prior to use. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 36.6°C and 49.3% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 20.0°C. Following exposure, individual carriers were transferred to 10 mL of Letheen Broth + 0.1% Sodium Thiosulfate to neutralize. All subcultures incubated 48±2 hours at 35-37°C. Subcultures were stored 2 days at 2-8°C. Following incubation and storage, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

Note: Antibiotic sensitivity testing was performed using a representative culture from the day of testing and verified the antibiotic resistance pattern of the test organism.

12. MRID 49913514 “AOAC Use-Dilution Method, Test Organism: New Delhi metallo-beta-lactamase 1 (NDM-1) producing *Enterobacter cloacae* (CDC 1000654)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Becky Lien. Study conducted at Accuratus Lab Services. Study completion date – February 24, 2016. Project Number A20007.

This study was conducted against New Delhi metallo-beta-lactamase 1 (NDM-1) producing *Enterobacter cloacae* (CDC 1000654). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18120715.UD.1. All batches meet EPA's criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 5.0 mL test substance with 160.0 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. A loopful of stock slant culture was transferred to an initial 10 mL tube of growth medium, mixed, and incubated 24±2 hours at 35-37°C. A 10 µL aliquot was then transferred to 10 mL of culture medium (#1 transfer). The final test culture was incubated 48-54 hours at 35-37°C, vortex mixed (3-4 seconds), and allowed to stand for ≥10 minutes before use. The upper portion of culture was removed, pooled and mixed. The culture was diluted by combining 1.50 mL test organism with 28.5 mL sterile growth medium. The final test culture was mixed thoroughly prior to use. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 36.6°C and 51.7% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 20.0°C. Following exposure, individual carriers were transferred to 10 mL of Lethen Broth + 0.1% Sodium Thiosulfate to neutralize. All subcultures incubated 48±2 hours at 25-30°C. Subcultures were stored 2 days at 2-8°C. Following incubation and storage, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

Note: Antibiotic sensitivity testing was performed using a representative culture from the day of testing and verified the antibiotic resistance pattern of the test organism.

13. MRID 49913515 “AOAC Use-Dilution Method, Test Organism: New Delhi metallo-beta-lactamase 1 (NDM-1) producing *Escherichia coli* (CDC 1001728)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Becky Lien. Study conducted at Accuratus Lab Services. Study completion date – February 24, 2016. Project Number A20002.

This study was conducted against New Delhi metallo-beta-lactamase 1 (NDM-1) producing *Escherichia coli* (CDC 1001728). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18120715.UD.2. All batches meet EPA's criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 9.0 mL test substance with 288.0 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. A loopful of stock slant culture was transferred to an initial 10

mL tube of growth medium, mixed, and incubated 24±2 hours at 35-37°C. A 10 µL aliquot was then transferred to 10 mL of culture medium (#1 transfer). The final test culture was incubated 48-54 hours at 35-37°C, vortex mixed (3-4 seconds), and allowed to stand for ≥10 minutes before use. The upper portion of culture was removed, pooled and mixed. The final test culture was mixed thoroughly prior to use. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 36.5-36.6°C and 53.8% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 19.0°C. Following exposure, individual carriers were transferred to 10 mL of Lethen Broth + 0.1% Sodium Thiosulfate to neutralize. All subcultures incubated 48±2 hours at 35-37°C. Subcultures were stored 2 days at 2-8°C. Following incubation and storage, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

Note: Antibiotic sensitivity testing was performed using a representative culture from the day of testing and verified the antibiotic resistance pattern of the test organism.

14. MRID 49913516 “AOAC Use-Dilution Method, Test Organism: Penicillin Resistant *Streptococcus pneumoniae* (ATCC 700677)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Melissa Bruner. Study conducted at Accuratus Lab Services. Study completion date – December 22, 2015. Project Number A19720.

This study was conducted against Penicillin Resistant *Streptococcus pneumoniae* (ATCC 700677). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18111115.UD.2. All batches meet EPA's criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 20.0 mL test substance with 640 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. Agar plates were inoculated with test organism, incubated 3 days at 35-37°C, and suspended in Fluid Thioglycollate Medium to target 1×10^8 CFU/mL (spec value = 1.108 at 620 nm). A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 36.6-36.7°C and 52.6% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 20.0°C. Following exposure, individual carriers were transferred to 10 mL Brain Heart Infusion Broth + 0.07% Lecithin + 0.5% Tween 80 to neutralize. Approximately 25-60 minutes later, carriers were transferred into an additional 10 mL of the same neutralizer. All subcultures incubated 48±2 hours at 35-37°C in CO₂. Subcultures were stored 2 days at 28°C. Following incubation and storage, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

Note: Antibiotic sensitivity testing was performed using a representative culture from the day of testing and verified the antibiotic resistance pattern of the test organism.

15. MRID 49913517 “AOAC Use-Dilution Method, Test Organism: *Proteus mirabilis* (ATCC 9240)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Melissa Bruner. Study conducted at Accuratus Lab Services. Study completion date – December 22, 2015. Project Number A19721.

This study was conducted against *Proteus mirabilis* (ATCC 9240). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18111115.UD.3. All batches meet EPA’s criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 20.0 mL test substance with 640 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. A loopful of stock slant culture was transferred to an initial 10 mL tube of growth medium, mixed, and incubated 24±2 hours at 35-37°C. A 10 µL aliquot was then transferred to 10 mL of culture medium (#1 transfer). The final test culture was incubated 48-54 hours at 35-37°C, vortex mixed (3-4 seconds), and allowed to stand for ≥10 minutes before use. The upper portion of culture was removed, pooled and mixed. The culture was then diluted by combining 1.00 mL test organism suspension with 99.0 mL sterile growth medium. The final test culture was mixed thoroughly prior to use. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 36.5-36.6°C and 53.2% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 20.0°C. Following exposure, individual carriers were transferred to 10 mL of Lethen Broth + 0.1% Sodium Thiosulfate to neutralize. All subcultures incubated 48±2 hours at 35-37°C. Subcultures were stored 2 days at 2-8°C. Following incubation and storage, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

16. MRID 49913518 “AOAC Use-Dilution Method, Test Organism: *Serratia marcescens* (ATCC 14756)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Melissa Bruner. Study conducted at Accuratus Lab Services. Study completion date – May 3, 2016. Project Number A20215.

This study was conducted against *Serratia marcescens* (ATCC 14756). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18120715.UD.10. All batches meet EPA’s criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 5.0 mL test substance with 160.0 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. A loopful of stock slant culture was transferred to an initial 10 mL tube of growth medium, mixed, and incubated 24±2 hours at 35-37°C. A 10 µL aliquot was then transferred to 10 mL of culture medium (#1 transfer). The final test culture was incubated 48-54 hours at 35-37°C, vortex mixed (3-4 seconds), and allowed to stand for ≥10 minutes before use. The upper portion of culture was removed, pooled and mixed. The culture was then diluted by combining 0.06 mL test organism suspension with 29.94 mL sterile growth medium. The final test culture was mixed thoroughly prior to use. A 1.50 mL aliquot

of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 36.6°C and 49.4% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 21.0°C. Following exposure, individual carriers were transferred to 10 mL of Letheen Broth + 0.1% Sodium Thiosulfate to neutralize. All subcultures incubated 48±2 hours at 35-37°C. Following incubation, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

Note: Testing conducted on 2/3/16 was repeated because the amount of test substance used in the assay could not be determined.

17. MRID 49913519 “AOAC Use-Dilution Method, Test Organism: *Staphylococcus epidermidis* - Coagulase Negative (CoNS) (ATCC 12228)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Jamie Herzan. Study conducted at Accuratus Lab Services. Study completion date – December 22, 2015. Project Number A19690.

This study was conducted against *Staphylococcus epidermidis* - Coagulase Negative (CoNS) (ATCC 12228). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18111115.UD.4. All batches meet EPA's criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 5.0 mL test substance with 160.0 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. A loopful of stock slant culture was transferred to an initial 10 mL tube of growth medium, mixed, and incubated 24±2 hours at 35-37°C. A 10 µL aliquot was then transferred to 10 mL of culture medium (#1 transfer). The final test culture was incubated 48-54 hours at 35-37°C, vortex mixed (3-4 seconds), and allowed to stand for ≥10 minutes before use. The upper portion of culture was removed, pooled and mixed. The culture was then diluted by combining 7.5 mL test organism suspension with 32.5 mL sterile growth medium. The final test culture was mixed thoroughly prior to use. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 36.0°C and 40% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 20.0°C. Following exposure, individual carriers were transferred to 10 mL of Letheen Broth + 0.1% Sodium Thiosulfate to neutralize. All subcultures incubated 48±2 hours at 35-37°C. Following incubation, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, carrier population, and confirmation of coagulase negativity.

18. MRID 49913520 “Virucidal Hard-Surface Efficacy Test – SARS-Associated Coronavirus (SARS CoV), Strain CDC 200300592 for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Semhar Fanuel. Study conducted at MicroBioTest (A Division of Microbac Laboratories, Inc.). Study completion date – March 2, 2016. Project Number 320-607.

This study was conducted against SARS-Associated Coronavirus (SARS-Cov), Strain CDC 200300592 (obtained from ZeptoMetrix), using Vero E6 cells (ATCC CRL-1586) as the host system. Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using MicroBioTest Protocol No. 320.3.11.16.15. All batches meet EPA's criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon of 100 ppm AOAC synthetic hard water (1 part test substance + 32 parts 100 ppm AOAC Synthetic water). The stock virus culture contained 5% serum as the organic soil load. Films of virus were prepared by spreading 0.4 mL of virus inoculum uniformly over the bottoms of separate sterile glass carriers. The virus films were dried 30 minutes at 20-21°C and 45.7-46.2% relative humidity. One replicate per product batch was tested. For each lot of product, separate dried virus films were completely covered with 2 mL of test substance. The treated dish was held covered for 4.5 minutes at 21°C and 45.3-45.7% relative humidity. The virus-disinfectant mixtures were neutralized with 2.0 mL 1X Minimum Essential Medium (MEM) + 10% Fetal Bovine Serum (FBS) + 4% HEPES + 0.5% Na₂S₂O₃ + 0.025N HCl and the plates were scraped with a cell scraper to resuspend the contents. Serial dilutions were made. Vero E6 cells in multi-well culture dishes were inoculated in quadruplicate. The cultures were incubated at 36±2°C in a humidified atmosphere of 5±1% CO₂ for 4-9 days. The cultures were scored periodically for the presence or absence of cytopathic effects, cytotoxicity, and viability. Controls included those for input virus titer, plate recovery, cytotoxicity, viability, and neutralizer effectiveness/viral interference. Viral and cytotoxicity titers were calculated by the Spearman-Kärber method.

19. MRID 49913521 “AOAC Use-Dilution Method, Test Organism: *Vibrio cholerae* (ATCC 11623)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Maggie Brusky. Study conducted at Accuratus Lab Services. Study completion date – March 31, 2016. Project Number A20297.

This study was conducted against *Vibrio cholerae* (ATCC 11623). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18012116.UD. All batches meet EPA's criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 10.0 mL test substance with 320 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. Sufficient agar plates were inoculated from stock test organism and incubated 2 days at 35-37°C. The organism was then suspended in diluent and adjusted to a spectrophotometer value of 2.297 at 620 nm wavelength. Final test culture was thoroughly mixed prior to use. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 27.0°C and 60% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of

test substance for 4.5 minutes at 20.0°C. Following exposure, individual carriers were transferred to 10 mL of Lethen Broth + 0.1% Sodium Thiosulfate to neutralize. All subcultures incubated 2 days at 35-37°C. Following incubation, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

20. MRID 49913522 “AOAC Use-Dilution Method, Test Organism: *Yersinia enterocolitica* (ATCC 23715)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Melissa Bruner. Study conducted at Accuratus Lab Services. Study completion date – March 7, 2016. Project Number A20214.

This study was conducted against *Yersinia enterocolitica* (ATCC 23715). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18120715.UD.11. All batches meet EPA's criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 15.0 mL test substance with 480 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. Sufficient agar plates were inoculated from stock test organism and incubated 2-3 days at 36.0°C. The organism was then suspended in diluent to match a 1.0 McFarland turbidity standard. Final test culture was thoroughly mixed prior to use. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 36.6°C and 50.5% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 20.0°C. Following exposure, individual carriers were transferred to 10 mL of Lethen Broth + 0.07% Lecithin + 0.5% Tween 80 to neutralize. All subcultures incubated 48±2 hours at 35-37°C. Following incubation, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

21. MRID 49913523 “Virucidal Hard-Surface Efficacy Test, Hantavirus (Prospect Hill Virus)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Zheng Chen. Study conducted at MicroBioTest (A Division of Microbac Laboratories, Inc.). Study completion date – March 2, 2016. Project Number 320-606.

This study was conducted against Hantavirus (Prospect Hill Virus), from the University of Western Ontario using Vero E6 cells (ATCC CRL-1586) as the host system. Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using MicroBioTest Protocol No. 320.2.11.16.15. All batches meet EPA's criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup /gallon of 100 ppm AOAC synthetic hard water (1 part test substance + 32 parts 100 ppm AOAC Synthetic water). The stock virus culture contained 5% serum as the organic soil load. Films of virus were prepared by spreading 0.4 mL of virus inoculum uniformly over the bottoms of separate sterile glass carriers. The virus films were dried 30 minutes at 20°C and 19.2-20.5% relative humidity. One replicate per product batch was tested. For each lot of product, separate

dried virus films were completely covered with 2 mL of test substance. The treated dish was held covered for 4.5 minutes at 20°C and 20.5-20.7% relative humidity. The virus-disinfectant mixtures were neutralized with 2.0 mL 1X Minimum Essential Medium (MEM) + 10% Fetal Bovine Serum (FBS) + 4% HEPES + 0.5% Na₂S₂O₃ + 0.025N HCl and the plates were scraped with a cell scraper to re-suspend the contents. Serial dilutions were made. Vero E6 cells in multi-well culture dishes were inoculated in quadruplicate. The cultures were incubated at 36±2°C in a humidified atmosphere of 5±1% CO₂ for 10-14 days. An indirect immunofluorescence test was used to determine the presence of the virus. Controls included those for input virus titer, plate recovery, cytotoxicity, viability, and neutralizer effectiveness/viral interference. Viral and cytotoxicity titers were calculated by the Spearman-Kärber method.

22. MRID 49913524 “AOAC Use-Dilution Method, Test Organism: *Haemophilus influenzae* (ATCC 10211)” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Matthew Sathe. Study conducted at Accuratus Lab Services. Study completion date – March 3, 2016. Project Number A19896.

This study was conducted against *Haemophilus influenzae* (ATCC 10211). Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Lab Services Protocol No. CX18111115.UD.6. All batches meet EPA’s criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon by combining 20.0 mL test substance with 640 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used within 3 hours of preparation. Sodium hypochlorite concentration and pH were determined. Agar plates were inoculated from stock test organism and incubated 3 days at 35-37°C in 6.0% CO₂. The organism was then suspended in Butterfield’s buffer to a 4.0 McFarland turbidity standard. Final test culture was thoroughly mixed prior to use. A 1.50 mL aliquot of fetal bovine serum was added to 28.5 mL of culture to achieve a 5% organic soil load. Ten (10) penicylinder carriers per batch were inoculated by immersion in a suspension of the organism, at a ratio of one carrier per 1 mL of culture for 15±2 minutes. Inoculated carriers were dried 38 minutes at 36.7°C and 51.0% relative humidity. Carriers were used within 2 hours of drying. Each carrier was placed into 10.0 mL of test substance for 4.5 minutes at 20.0°C. Following exposure, individual carriers were transferred to 10 mL of Lethen Broth + 0.1 sodium thiosulfate to neutralize. Subcultures were sonicated and transferred to a 0.45 µm porosity filter membrane, pre-wetted with 10.0 mL saline and filtered with a vacuum pump. Each membrane was washed with ≥50 mL saline and placed on a Chocolate Agar plate for recovery. All subcultures incubated 3 days at 35-37°C in 6.0% CO₂. Subcultures were stored 1 day at 2-8°C. Following incubation and storage, subcultures were examined for the presence or absence of visible growth. Controls included those for purity, sterility, viability, neutralization confirmation, and carrier population.

23. MRID 49913525 “Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces, Virus: Herpes simplex virus type 1” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Mary J. Miller. Study conducted at Accuratus Lab Services. Study completion date – April 4, 2016. Project Number A20237.

This study was conducted against Herpes simplex virus type 1, Strain F(1) (ATCC CR-733) using Vero cells (ATCC CCL-81) as the host system. Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Protocol No. CX18012116.HSV.1. All batches meet EPA's criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon by combining 1.00 mL test substance with 32.0 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used on the day of preparation. On the day of use, an aliquot of stock virus was thawed and maintained at a refrigerated temperature until used in the assay. The stock virus culture contained 5% fetal bovine serum as the organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum uniformly over the bottoms of separate sterile glass carriers. The virus films were dried 20 minutes at 20.0°C and 50% relative humidity. One replicate per product batch was tested. For each batch, separate dried virus films were exposed to 2.00 mL of test substance and held covered for 4.5 minutes at 20.0°C. Just prior to the end of the exposure, the plates were scraped with a cell scraper to re-suspend the contents. The virus/disinfectant mixtures then were passed through individual Sephadex columns, and diluted serially. Vero cells in multi-well culture dishes were inoculated in quadruplicate. The cultures were incubated at 36-38°C in a humidified atmosphere of 5-7% CO₂. The cultures were scored periodically for 8 days for the presence or absence of cytopathic effects, cytotoxicity, and viability. Controls included those for input virus titer, dried virus count, cytotoxicity, and neutralization. Viral and cytotoxicity titers were calculated by the Spearman-Kärber method.

24. MRID 49913526 “Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces, Virus: Newcastle disease virus” for CLB, FIS2015.0210 and CLB I, FIS2015.0315, by Mary J. Miller. Study conducted at Accuratus Lab Services. Study completion date – April 4, 2016. Project Number A20246.

This study was conducted against Newcastle disease virus, Strain B1, Hitchner or Blackburg (ATCC VR108) using chicken embryo fibroblast (CEF) cells as the host system. Two batches (15SSB1 and 15SSB2) of the product, CLB, FIS2015.0210 and CLB I, FIS2015.0315, were tested using Accuratus Protocol No. CX18012116.NEW. All batches meet EPA's criteria for efficacy testing at the lower certified limit. The product was received as a concentrated liquid and diluted to ½ cup/gallon (1 part test substance + 32 parts 100 ppm AOAC Synthetic water) by combining 1.00 mL test substance with 32.0 mL of 100 ppm AOAC synthetic hard water. Prepared test substance was used on the day of preparation. On the day of use, an aliquot of stock virus was thawed and maintained at a refrigerated temperature until used in the assay. The stock virus culture was adjusted to contain 5% fetal bovine serum as the organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum uniformly over the bottoms of separate sterile glass carriers. The virus films were dried 20 minutes at 20.0°C and 50% relative humidity. One replicate per product batch was tested. For each batch, separate dried virus films were exposed to 2.00 mL of test substance and held covered for 4.5 minutes at 20.0°C. Just prior to the end of the exposure, the plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures then were passed through individual Sephadex columns, and diluted serially.

CEF cells in multi-well culture dishes were inoculated in quadruplicate. The cultures were incubated at 36-38°C in a humidified atmosphere of 5-7% CO₂. The cultures were scored periodically for 7 days for the presence or absence of cytopathic effects, cytotoxicity, and viability. Controls included those for input virus titer, dried virus count, cytotoxicity, and neutralization. Viral and cytotoxicity titers were calculated by the Spearman-Kärber method.

V RESULTS

Food Contact Surface Sanitization (AOAC Available Chlorine) Results:

MRID No.	Organism	Batch No.	Subculture Series									
			1	2	3	4	5	6	7	8	9	10
49913504	<i>Salmonella enterica</i> subspecies <i>enterica</i> serovar Typhi (ATCC 6539)	NaOCl Control 200 ppm	0	0	0	0	+	+	+	+	+	+
		NaOCl Control 100 ppm	0	0	0	+	+	+	+	+	+	+
		NaOCl Control 50 ppm	0	+	+	+	+	+	+	+	+	+
		Batch 15SSB1	0	0	0	0	+	+	+	+	+	+
		Batch 15SSB2	0	0	0	0	+	+	+	+	+	+
		Batch 15SSB3	0	0	0	0	+	+	+	+	+	+
49913505	<i>Salmonella enterica</i> subspecies <i>enterica</i> serovar Typhi (ATCC 6539)	NaOCl Control 200 ppm	0	0	0	0	+	+	+	+	+	+
		NaOCl Control 100 ppm	0	0	0	+	+	+	+	+	+	+
		NaOCl Control 50 ppm	0	0	+	+	+	+	+	+	+	+
		Batch 15SSB4	0	0	0	0	+	+	+	+	+	+
		Batch 15SSB5	0	0	0	0	+	+	+	+	+	+
49913506	<i>Yersinia enterocolitica</i> (ATCC 23715)	NaOCl Control 200 ppm	0	0	0	0	0	0	0	0	0	0
		NaOCl Control 100 ppm	0	0	0	0	0	0	0	0	0	0
		NaOCl Control 50 ppm	0	0	0	0	0	0	0	0	0	0
		Batch 15SSB1	0	0	0	0	0	0	0	0	0	0
		Batch 15SSB2	0	0	0	0	0	0	0	0	0	0

+ = growth of test organism; 0 = No growth

Hard Surface Bacterial Disinfection Results:

MRID No.	Organism	Carriers Exhibiting Growth		Carrier Population (log ₁₀ CFU/carrier)
		15SSB1	15SSB2	
49913507	<i>Bordetella pertussis</i> (ATCC 12743)	0/10	0/10	7.31
49913508	<i>Campylobacter jejuni</i> (ATCC 29428)	0/10	0/10	6.48
49913509	Carbapenem Resistant <i>Escherichia coli</i> (CDC 81371)	0/10	0/10	6.55
49913510	<i>Enterococcus faecalis</i> (ATCC 29212)	0/10	0/10	6.28
49913511	<i>Klebsiella oxytoca</i> (ATCC 13182)	0/10	0/10	5.02
49913512	<i>Listeria monocytogenes</i> (ATCC 19117)	1°: 0/10 2°: 0/10	1°: 0/10 2°: 0/10	6.01
49913513	MDR <i>Enterococcus faecium</i> (ATCC 51559)	0/10	0/10	5.95
49913514	New Delhi metallo- betalactamase 1(NDM-1) producing <i>Enterobacter cloacae</i> (CDC 1000654)	0/10	0/10	6.10
49913515	NDM-1 producing <i>Escherichia coli</i> (CDC 1001728)	0/10	0/10	6.64
49913516	Penicillin Resistant <i>Streptococcus pneumoniae</i> (ATCC 700677)	1°: 0/10 2°: 0/10	1°: 0/10 2°: 0/10	4.42
49913517	<i>Proteus mirabilis</i> (ATCC 9240)	0/10	0/10	5.00
49913518	<i>Serratia marcescens</i> (ATCC 14756)	0/10	0/10	5.03
49913519	<i>Staphylococcus epidermidis</i> - Coagulase Negative (CoNS) (ATCC 12228)	0/10	0/10	5.40
49913521	<i>Vibrio cholerae</i> (ATCC 11623)	0/10	0/10	6.30
49913522	<i>Yersinia enterocolitica</i> (ATCC 23715)	0/10	0/10	6.48
49913524	<i>Haemophilus influenza</i> (ATCC 10211)	0/10	0/10	4.11

Hard Surface Viral Disinfection Results:

MRID No.	Organism	Description	Batch		Dried Virus Control
			15SSB1	15SSB2	
49913520	SARS-Associated Coronavirus (SARS-CoV), Strain CDC 200300592	10 ⁻² to 10 ⁻⁷ dilutions	Complete Inactivation	Complete Inactivation	10 ^{6.60} (TCID ₅₀ /0.4mL)
		TCID ₅₀ /0.4mL	≤10 ^{1.10}	≤10 ^{1.10}	
		Log Reduction	≥5.50	≥5.50	
49913523	Hantavirus (Prospect Hill Virus)	10 ⁻² to 10 ⁻⁷ dilutions	Complete Inactivation	Complete Inactivation	10 ^{5.10} (TCID ₅₀ /0.4mL)
		TCID ₅₀ /0.4mL	≤10 ^{1.10}	≤10 ^{1.10}	
		Log Reduction	≥4.00	≥4.00	
49913525	Herpes simplex virus type 1, Strain F(1) (ATCC CR-733)	10 ⁻¹ to 10 ⁻⁸ dilutions	Complete Inactivation	Complete Inactivation	10 ^{4.50} (TCID ₅₀ /0.1mL)
		TCID ₅₀ /0.1mL	≤10 ^{1.50}	≤10 ^{1.50}	
		TCD ₅₀ /0.1mL	≤10 ^{0.50}	≤10 ^{0.50}	
		Log Reduction	≥3.00	≥3.00	
49913526	Newcastle disease virus, Strain B1, Hitchner or Blacksburg (ATCC VR-108)	10 ⁻¹ to 10 ⁻⁷ dilutions	Complete Inactivation	Complete Inactivation	10 ^{5.50} (TCID ₅₀ /0.1mL)
		TCID ₅₀ /0.1mL	≤10 ^{1.50}	≤10 ^{1.50}	
		TCD ₅₀ /0.1mL	≤10 ^{0.50}	≤10 ^{0.50}	
		Log Reduction	≥4.00	≥4.00	

VI CONCLUSIONS

1. The submitted efficacy data support use of a 1:381 dilution of the product, CLB I, as a sanitizer for precleaned food-contact surfaces against the following microorganisms on hard, nonporous surfaces in the presence of 100-ppm hard water:

MRID No.

49913504 & 49913505

Organism

Salmonella enterica subspecies *enterica*
servovar Typhi (ATCC 6539)

49913506

Yersinia enterocolitica (ATCC 23715)

2. The submitted efficacy data support the use of the product, CLB I, as a disinfectant with bactericidal activity against the following microorganisms on hard, nonporous surfaces in the presence of a 5% organic soil load for a 4.5 minute contact time when diluted at ½ cup test substance per gallon of 100 ppm hard water:

MRID No.

49913507

Organism

Bordetella pertussis (ATCC 12743)

49913508	<i>Campylobacter jejuni</i> (ATCC 29428)
49913509	Carbapenem Resistant <i>Escherichia coli</i> (CDC 81371)
49913510	<i>Enterococcus faecalis</i> (ATCC 29212)
49913511	<i>Klebsiella oxytoca</i> (ATCC 13182)
49913512	<i>Listeria monocytogenes</i> (ATCC 19117)
49913513	MDR <i>Enterococcus faecium</i> (ATCC 51559)
49913514	NDM-1 producing <i>Enterobacter cloacae</i> (CDC 1000654)
49913515	NDM-1 producing <i>Escherichia coli</i> (CDC 1001728)
49913516	Penicillin Resistant <i>Streptococcus pneumoniae</i> (ATCC 700677)
49913517	<i>Proteus mirabilis</i> (ATCC 9240)
49913518	<i>Serratia marcescens</i> (ATCC 14756)
49913519	<i>Staphylococcus epidermidis</i> - Coagulase Negative (CoNS) (ATCC 12228)
49913521	<i>Vibrio cholerae</i> (ATCC 11623)
49913522	<i>Yersinia enterocolitica</i> (ATCC 23715)
49913524	<i>Haemophilus influenzae</i> (ATCC 10211)

3. The submitted efficacy data support the use of the product, CLB I, as a disinfectant with virucidal activity against the following microorganisms on hard, nonporous surfaces in the presence of a 5% organic soil load for a 4.5 minute contact time when diluted at ½ cup test substance per gallon of 100 ppm hard water:

<u>MRID No.</u>	<u>Organism</u>
49913520	SARS-Associated Coronavirus (SARS CoV), Strain CDC 200300592
49913523	Hantavirus (Prospect Hill Virus)
49913525	Herpes simplex virus type 1, Strain F(1) (ATCC CR-733)
49913526	Newcastle disease virus, Strain B1, Hitchner or Blacksburg (ATCC VR-108)

4. The submitted discussion (MRID 49913503) supports data citation from EPA Reg. No. 5813-100, for the product CLB I, as a disinfectant with: sporicidal activity against *Clostridium difficile* spores, bactericidal activity against additional bacteria, virucidal activity, fungicidal activity, and tuberculocidal activity, and non-food sanitizer claims at the contact times and dilutions proposed on the label.

VII LABEL (RC206010 dated 6/6/16)

1. The proposed label claims are acceptable regarding the use of the product, CLB I, as a sanitizer for use on food-contact surfaces against the following organisms when diluted at 1 tablespoon test substance per gallon of 100 ppm hard water:
 - *Salmonella enterica* subspecies *enterica* serovar Typhi (ATCC 6539)
 - *Yersinia enterocolitica* (ATCC 23715)

These claims **are supported** by the applicant's data.

2. The proposed label claims are acceptable regarding the use of the product, CLB I, as a disinfectant with bactericidal activity against the following organisms for use on hard, nonporous surfaces against the following microorganisms in the presence of a 5% organic

soil load for a 4.5 minute contact time when diluted at ½ cup test substance per gallon of 100 ppm hard water:

- *Bordetella pertussis* (ATCC 12743)
- *Campylobacter jejuni* (ATCC 29428)
- Carbapenem Resistant *Escherichia coli* (CDC 81371)
- *Enterococcus faecalis* (ATCC 29212)
- *Klebsiella oxytoca* (ATCC 13182)
- *Listeria monocytogenes* (ATCC 19117)
- MDR *Enterococcus faecium* (ATCC 51559)
- NDM-1 producing *Enterobacter cloacae* (CDC 1000654)
- NDM-1 producing *Escherichia coli* (CDC 1001728)
- Penicillin Resistant *Streptococcus pneumoniae* (ATCC 700677)
- *Proteus mirabilis* (ATCC 9240)
- *Serratia marcescens* (ATCC 14756)
- *Staphylococcus epidermidis* - Coagulase Negative (CoNS) (ATCC 12228)
- *Vibrio cholerae* (ATCC 11623)
- *Yersinia enterocolitica* (ATCC 23715)
- *Haemophilus influenzae* (ATCC 10211)

These claims **are supported** by the applicant's data.

3. The proposed label claims are acceptable regarding the use of the product, CLB I, as a disinfectant with virucidal activity against the following organisms for use on hard, non-porous surfaces against the following microorganisms in the presence of a 5% organic soil load for a 4.5 minute contact time when diluted at ½ cup test substance per gallon of 100 ppm hard water:

- SARS-Associated Coronavirus (SARS CoV)
- Hantavirus
- Herpes simplex virus type 1
- Newcastle disease virus

These claims **are supported** by the applicant's data.

4. The remaining proposed antimicrobial label claims cited from EPA Reg. No. 5813-100, for disinfectant with: sporicidal activity against *Clostridium difficile* spores, bactericidal activity against additional bacteria, virucidal activity, fungicidal activity, and tuberculocidal activity, and non-food sanitizer claims are acceptable. These claims are supported by the applicant's discussion submission.
5. The proposed label claims that the product, CLB I, qualifies for emerging pathogens claims against enveloped, large non-enveloped, and small non-enveloped viruses when used according to the directions for use against the viruses listed on page 1 of the letter "Re: Terms of Registration for CLB I, EPA Reg No. 5813-RRU", dated June 6, 2016.

These claims are **acceptable, however** the Terms of Registration should be revised to reflect the language in Attachment 1 of the Emerging Viral Pathogen Guidance

document (https://www.epa.gov/sites/production/files/2016-09/documents/emerging_viral_pathogen_program_guidance_final_8_19_16_001_0.pdf). In particular:

- The section heading should be revised to read “Emerging Viral Pathogen Claims.
 - The effective date of the guidance should be changed to August 19, 2016.
 - Statement 1 should specify that technical literature is that “distributed exclusively to health care facilities, physicians, nurses, and public health officials”, and “production” should be changed to “product.”
 - Statement 3 must include the 24-month time limit for non-label communications related to an emerging pathogen as described in the guidance.
 - Statement 4 must specify that statements 1-3 “shall become immediately void and ineffective if registration for use against the supporting viruses in the above table is suspended or cancelled such that the product no longer qualifies for the emerging pathogens claim, or no longer meets the criteria for a disinfectant claim...”, as described in the guidance.
6. On pages 8 and 11 of the proposed label, the directions for use as a laundry sanitizer should specify the required contact time.
7. On pages 9-10, 14, 16, and 38 of the proposed label, the directions for use and all associated marketing claims for sanitizing wooden cutting boards and kitchen dish cloths and rags should be removed. The cited data for this product do not support its use as a sanitizer on soft or porous surfaces, except as a laundry sanitizer. The heading on page 16 should be revised to “Sanitize Hard, Non-porous Cutting Boards”
8. On page 13 of the label:
- Directions for use for disinfection should clearly indicate that a 10 minute contact time may be required for certain organisms. Text regarding Feline Parvovirus and Canine Parvovirus at 10 minutes should not be bracketed as optional.
 - Under “Special Label Instructions for Cleaning Prior to Disinfection against *Clostridium difficile* endospores”, the phrase “and other ‘dirty’ areas” should be removed.
9. On page 14 of the label:
- Contact time for sanitizing food contact surfaces should be consistent with contact time identified for List 3.
 - Under directions for use for “Fruit & Vegetable Washing”, the 2 instances of the word “sanitizing” should be removed. The cited data for this product do not support its use for sanitizing the surface of fruits and vegetables, or the water in which they are washed.
10. On page 15 of the label:
- The word “Disinfect” should be removed from the heading “Clean [&] [Disinfect] Flower Pots and Planters.”
 - The section titled “Keep Wading Pools Sanitary” should be removed. The cited data for this product do not support its use for sanitizing swimming pool water.

11. On pages 18-21 of the label, the following phrases should be removed:
- “a common cause of food-borne illness” (associated with *Salmonella enterica* and *Shigella dysenteriae*)
 - “a common cause of Staph infection” (associated with *Staphylococcus aureus*)
 - “a common cause of Athlete’s foot” (associated with *Trichophyton mentagrophytes*)
 - “causative agent of genital herpes (associated with Herpes Simplex virus type 2)
 - “[most] common cause of childhood diarrhea” (associated with Rotavirus)
 - “[the bacteria that causes Legionnaires disease)]” (associated with *Legionella pneumophila*)
12. On page 21 of the label, Feline Calicivirus should be removed. The cited data supporting Feline Calicivirus was not found acceptable in the Agency review dated June 8, 2010, and no record could be found that this was resolved with additional data. Murine Norovirus is also an acceptable surrogate for Norovirus/Norwalk virus, and these claims may be moved next to Murine Norovirus in the organism list.
13. On page 24 of the label, “Covers & cleans – everywhere” and “cleans every inch” should be clarified with “of hard, non-porous surfaces”.
14. On page 29 of the label:
- “Antibacterial” should be removed from the 9th claim on the left column.
 - The second bullet on the right column claiming disinfection of drinking water in emergency situations should be removed.
 - In the 4th bullet from the bottom of the left column, when “around the house” is used with “Disinfects” and/or “Sanitizes”, the phrase “on hard, non-porous surfaces” should be added.
15. On page 29-31 of the label, kill claims should be limited to 99.9% (not. 99.99%).
16. On page 30 of the label:
- The 7th bullet in the left column should be changed to “Kills [99.9% of] [the] germs [§§] on hard, non-porous surfaces around your home -or- house”, or a similar statement that specifies that the product disinfects only hard, non-porous surfaces.
 - In the 5th claim from the bottom of the left column, the phrase “that can cause food-borne illness” should be removed.
 - The 3rd bullet in the right column should be limited to hard, nonporous surfaces
 - The 13th bullet in the right column with an emergency drinking water treatment claim should be removed.
 - The 16th bullet in the right column, claiming “Pseudomonicidal” should be removed, or qualified with the specific organism name.
 - In the footnote §§§, the phrases “a common cause of food-borne illness” and “common causes of food borne illness” should be removed.
17. On page 31 of the label:
- Remove “Streptocidal” and “Staphylocidal” claims or qualify the claims with the names of the specific organisms.

- Under “Emerging Pathogen Claim” the entire phrase “Insert name of supporting virus(es)” should be bold and italicized to be replaced with the appropriate virus name(s).
18. On page 34 of the label, in the 2 service bulletins for sanitizing laundry, the required contact time should be specified.
 19. On page 35 of the label, in the service bulletin “Disinfecting Guide”, the phrase “as well as for purification of drinking water and disinfection of water for swimming and wading pools” should be removed.
 20. On page 36 of the label, the phrase “that may cause food poisoning” should be removed.
 21. On page 38 of the label, the directions for sanitizing brushes, mops, and brooms should specify that the product is only intended to sanitize brushes and brooms made of hard, non-porous materials such as plastic.
 22. On page 44 of the label, in the service bulletin “For Fruit & Vegetable Washing”, the 3 instances of “sanitizing” should be removed.
 23. On pages 46-47 of the label, in the service bulletins “Sanitation in care of Swine” and “For Poultry Care”, the directions “To sanitize drinking water” should be removed. The cited data for this product do not support its use as a sanitizer for animal drinking water.
 24. On page 47 of the label, in the service bulletin “For Poultry Care”, the directions for use for cleaning and disinfecting metal incubators, feeders, water containers, other poultry equipment and utensils, the disinfecting solution should be allowed to stand at least 5 minutes.
 25. On page 48 of the label:
 - In the service bulletin “In care of livestock, horses, pets”, the directions “To sanitize animals’ drinking water” should be removed.
 - In the service bulletin “For food egg sanitization”, the contact time should be specified.
 - In the service bulletin “For dairy and creamery equipment sanitation”, the statement “Lower solution temperatures result in...for lower temperatures by increasing the concentration of this product” should be removed. The cited data for this product does not support such a relationship between temperature and exposure time or concentration of the product.
 26. On page 49 of the label, the directions for sanitizing rubber teat cups and tubes should be removed. The cited data for this product do not support its use on porous surfaces such as rubber.
 27. On pages 51-54 of the label, the service bulletins and any associated language for emergency disinfection of potable drinking water, disinfection of individual potable water systems, and disinfection of swimming pools, wading pools, spas, hot tubs, and immersion tanks should be removed.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460



**OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES**
Antimicrobial Division

8/9/2016

DP BARCODE: 434671

MRID: 432329-01, 496420-01, 499135-01, and 499135-02

SUBJECT: CLB I

REG. NO. OR FILE SYMBOL: 5813-RRU

DOCUMENT TYPE: Product Chemistry Review

Manufacturing-use product [] **OR** **End-use product**[X]

INGREDIENTS (PC Codes): 014703

CAS Number: 7681-52-9

TEST LAB:

SUBMITTER: The Clorox Company c/o PS&RC

GUIDELINE:

COMMODITIES: Formulation

REVIEWER: Sergey Alekseyev

ORGANIZATION: AD/PSB/CTT

APPROVER: Karen P. Hicks

APPROVED DATE:

COMMENT:

TO: Demson Fuller/Srinivas Gowda
PM Team 32
Regulatory Management Branch II
Antimicrobials Division (7510P)

FROM: Sergey Alekseyev, Chemist
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

Two handwritten signatures are present. The top signature is in cursive and appears to read 'S. Alekseyev'. The bottom signature is also in cursive and appears to read 'K. Hicks'.

THRU: Karen P. Hicks, Team Leader
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

APPLICANT: The Clorox Company c/o PS&RC

Action code: (540) New Product; Non-Fast Track; FIFRA Sec. 2(MM) Uses

Due out date: 10/31/2016

Product Formulation

Active Ingredient(s):

Name:
Sodium hypochlorite

% by wt.
6.05

INTRODUCTION:

The Clorox Company c/o PS&RC provided EPA Form 8570-4 (Confidential Statement of Formula), one basic and one alternate formulation, dated 06/02/2016; MRID Nos. 432329-01, 496420-01, 499135-01, and 499135-02; EPA Form 8570-35 (Data Matrix), dated 06/06/2016; and a label, no date. The registrant is requesting registration of the product, CLB I, EPA Reg. No. **5813-RRU**.

FINDINGS:

1. EPA Reg. No. **5813-RRU** is an end-use product containing the active ingredient Sodium hypochlorite, with a label claim nominal concentration of 6.05% and other ingredients content of 93.95%. The product is for use as a bleach and sanitizer for hard, non-porous surfaces in commercial and residential premises. The product is produced by a non-integrated system.
2. The CSFs for both formulations are acceptable. The certified limits for all ingredients agree with 40 CFR §158.350. All ingredients have been cleared for use in pesticide formulations.
3. Data reported in MRID Nos. 432329-01, 496420-01, 499135-01, and 499135-02 satisfy the product chemistry data requirements under Subgroups A and B, which pertain to Product Identity and Composition, and Physical and Chemical Properties, respectively.
4. The Ingredients Statement on the draft label is acceptable as per 40 CFR §156.10(g) and PR Notices 91-2, 97-5, and 97-6. The Storage and Disposal Statements are acceptable in accordance with 40 CFR §156.10(i)(2)(ix) and PR Notice 83-3. The section Physical and Chemical Hazards should contain statements as follows: **“The product is oxidizer! Keep away from reducing matters.”**

CONCLUSIONS:

The registrant has satisfied the product chemistry requirements for the registration of EPA Reg. No. **5813-RRU**.

Product Chemistry Data**Subgroup A: Series 830.1550 - 830.1800 (40 CFR 158.155 - 158.180)**

GUIDELINE REFERENCE NO. (GRN)/ TITLE 830	40 CFR §	MRID Number	Data Fulfilled
.1550 Product Identity and Composition	158.320	CSF	Y
.1600 Description of Materials Used to Produce the Product	158.325	499135-01	Y
.1620 Description of Production Process	158.330		N/A
.1650 Discussion of Formulation Process	158.165	499135-01	Y
.1670 Discussion of Formation of Impurities	158.167	499135-01	Y
.1700 Preliminary Analysis	158.345		N/A
.1750 Certified Limits	158.350	499135-01	Y
.1800 Enforcement Analytical Method	158.355	496420-01	Y

Subgroup B: Series 830.6302 - 7950 (40 CFR 158.190)

Guideline Reference No. (GRN) / Title 830	Value or Qualitative Description	MRID Number	Data Fulfilled
.6302 Color	Yellow	499135-01	Y
.6303 Physical State	Liquid	499135-01	Y
.6304 Odor	Characteristic bleach odor	499135-01	Y
.6313 Stability to Normal and Elevated Temperature, Metals, and Metal Ions	The product is not TGAI/PAI.		N/A
.6314 Oxidation/Reduction Chemical Incompatibility	The product contains oxidizer.	432329-01	N/A
.6315 Flammability/ Flame Extension	The product does not contain flammable liquid.	CSF	N/A
.6316 Explodability	The product does not contain explosives.	499850-01	N/A
.6317 Storage Stability	In progress		I
.6319 Miscibility	The product is not to be mixed with organic solvents.	Label	N/A
.6320 Corrosion Characteristics	In progress		I
.6321 Dielectric Breakdown Voltage	The product is not intended to be used around electrical equipment.	Label	N/A
.7000 pH	11.87	499135-01	Y
.7050 UV/Visible Light Absorption	0		N/A
.7100 Viscosity	1.39 cPs at 20 °C; 0.94 cPs at 40 °C	499135-01	N/A
.7200 Melting Point	The product is not TGAI/PAI.		N/A
.7220 Boiling Point	The product is not TGAI/PAI.		N/A
.7300 Density/Bulk Density	1.0824 g/mL (9.024 lbs/gal) at 21.5 °C	499135-01	Y
.7370 Dissociation Constant in Water	The product is not TGAI/PAI.		N/A
.7550 Octanol/Water Partition Coefficient	The product is not TGAI/PAI.		N/A
.7840 Solubility to Water and Organic Solvents	The product is not TGAI/PAI.		N/A
.7950 Vapor Pressure	The product is not TGAI/PAI.		N/A

Explanations: Y = Requirement fulfilled; N = Requirement not fulfilled; N/A = Not applicable; G = Data gap; U = Upgradeable; I = Incomplete or in progress; W = Waived

Note to PM: Storage Stability and Corrosion Characteristics studies are supposed to be accomplished on December, 2016.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M. Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137)U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date	June 6, 2016	EPA Reg. No./File Symbol	5813-to be assigned	Page 2 of 21
Applicant's/Registrant's Name & Address		Product		
The Clorox Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		CLB I		

Ingredient Sodium hypochlorite (014703)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6314 (63-14)	Oxidation /Reduction: Chemical Incompatibility	43232901	The Clorox Company (5/17/1994)	OWN	
830.6315 (63-15)	Flammability	49913502	The Clorox Company (6/6/2016)	OWN	
830.6316 (63-16)	Explosibility	49913502	The Clorox Company (6/6/2016)	OWN	
830.6317 (63-17)	Storage Stability	49913502	The Clorox Company (6/6/2016)	OWN	
830.6319 (63-19)	Miscibility	49913502	The Clorox Company (6/6/2016)	OWN	
830.6320 (63-20)	Corrosion Characteristics	49913502	The Clorox Company (6/6/2016)	OWN	
830.6321 (63-21)	Dielectric Breakdown Voltage	49913502	The Clorox Company (6/6/2016)	OWN	
830.7000 (63-12)	pH	48017501	The Clorox Company (6/6/2016)	OWN	
830.7050 [None]	UV/Visible Absorption	49913502	The Clorox Company (6/6/2016)	OWN	
830.7100(63-18)	Viscosity	48017501	The Clorox Company (6/6/2016)	OWN	
830.7200 (63-5)	Melting Point/ Melting Range	49913502	The Clorox Company (6/6/2016)	OWN	
830.7220 (63-6)	Boiling Point/Boiling Range	49913502	The Clorox Company (6/6/2016)	OWN	
830.7300 (63-7)	Density/ Relative Density/Bulk Density	49913501	The Clorox Company (6/6/2016)	OWN	
830.7370 (63-10)	Dissociation Constants in Water	49913502	The Clorox Company (6/6/2016)	OWN	
830.7520 [None]	Particle Size, Fiber Length, and Diameter Distribution	49913502	The Clorox Company (6/6/2016)	OWN	

Signature	Name and Title	Date
J. Evelyn Lawson	J. Evelyn Lawson Federal Registration Specialist	6/6/2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M. Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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DATA MATRIX

Date	June 6, 2016	EPA Reg. No./File Symbol	5813-to be assigned	Page 1 of 21	
Applicant's/Registrant's Name & Address	The Clorox Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	CLB I		
Ingredient	Sodium hypochlorite (014703)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550 (61-1)	Product Identity and Composition	49913501	The Clorox Company (6/6/2016)	OWN	
830.1600 (61-2a)	Description of Materials Used to Produce the Product	49913501	The Clorox Company (6/6/2016)	OWN	
830.1620 (61-2b)	Description of Production Process	49913502	The Clorox Company (6/6/2016)	OWN	
830.1650 (61-2b)	Description of Formulation Process	49913501	The Clorox Company (6/6/2016)	OWN	
830.1670 (61-3)	Discussion of Formation of Impurities	49913501	The Clorox Company (6/6/2016)	OWN	
830.1700 (62-1)	Preliminary Analysis	49913502	The Clorox Company (6/6/2016)	OWN	
830.1750 (62-2)	Certified Limits	49913501	The Clorox Company (6/6/2016)	OWN	
830.1800 (62-3)	Enforcement Analytical Method	49642001	The Clorox Company (6/29/2015)	OWN	
830.1900 [64-1]	Submittal of Samples	49913502	The Clorox Company (6/6/2016)	OWN	
830.6302 (63-2)	Color	49913501	The Clorox Company (6/6/2016)	OWN	
830.6303 (63-3)	Physical state	49913501	The Clorox Company (6/6/2016)	OWN	
830.6304 (63-4)	Odor	49913501	The Clorox Company (6/6/2016)	OWN	
830.6313 (63-13)	Stability to Normal and Elevated Temperature, Metals, and Metal Ions	49913502	The Clorox Company (6/6/2016)	OWN	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson Federal Registration Specialist	Date	6/6/2016
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DATA WAIVER REQUESTS

Date May 10, 2016		EPA Reg. No./File Symbol 5813-to be assigned	Page 1 of 2
Applicant's/Registrant's Name & Address The Clorox Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Product CLB I	
Ingredient Sodium hypochlorite (14703)			
Guideline Reference Number	Guideline Study Name	Waiver Request	
830.1620 (61-2b)	Description of Production Process	The product does not consist solely of the technical grade of the active ingredient, nor is it produced by an integrated system.	
830.1700 (62-1)	Preliminary analysis	The product does not consist solely of the technical grade of the active ingredient, nor is it produced by an integrated system.	
830.1900 [64-1]	Submittal of Samples	Not required for either end-use or manufacturing-use products unless requested on a case-by-case basis.	
830.6313 (63-13)	Stability to Normal and Elevated Temperature, Metals, and Metal Ions	Not required for end-use products.	
830.6315 (63-15)	Flammability	Not required since the product does not contain combustible liquids.	
830.6316 (63-16)	Explosibility	Not required since the product is not potentially explosive.	
830.6317 (63-17)	Storage Stability	We request this study be made a condition of registration. We will be citing the storage stability/corrosion characteristics study we submit under CLB, currently EPA File Symbol 5813-RRR. Both registrations have the same upper and lower limits, and we expect to submit the data by December 2016.	
830.6319 (63-19)	Miscibility	Not required since the product is not an emulsifiable liquid and is not to be diluted with petroleum solvents.	
830.6320 (63-20)	Corrosion Characteristics	We request this study be made a condition of registration. We will be citing the storage stability/corrosion characteristics study we submit under CLB, currently EPA File Symbol 5813-RRR. Both registrations have the same upper and lower limits, and we expect to submit the data by December 2016.	
830.6321 (63-21)	Dielectric Breakdown Voltage	Not required since the product is not intended for use around electrical equipment.	
830.7050 [None]	UV/Visible Absorption	Not required for end-use products.	
830.7200 (63-5)	Melting Point/ Melting Range	Not required for end-use products.	
830.7220 (63-6)	Boiling Point/Boiling Range	Not required for end-use products.	

DATA WAIVER REQUESTS

Date May 10, 2016		EPA Reg. No./File Symbol 5813- <i>to be assigned</i>	Page 2 of 2
Applicant's/Registrant's Name & Address The Clorox Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Product CLB I	
Ingredient Sodium hypochlorite (14703)			
Guideline Reference Number	Guideline Study Name	Waiver Request	
830.7370 (63-10)	Dissociation Constants in Water	Not required for end-use products.	
830.7520 [None]	Particle Size, Fiber Length, and Diameter Distribution	Not required since the product is neither a powdered-type nor a fibrous product.	
830.7550 (63-11)	Partition Coefficient (<i>n</i> -Octanol/Water), Shake Flask Method	Not required for end-use products.	
830.7560 (63-11)	Partition Coefficient (<i>n</i> -Octanol/Water), Generator Column Method	Not required for end-use products.	
830.7570 (63-11)	Partition Coefficient (<i>n</i> -Octanol/Water), Estimation By Liquid Chromatography	Not required for end-use products.	
830.7840 (63-8)	Water Solubility: Column Elution Method; Shake Flask Method	Not required for end-use products.	
830.7860 (63-8)	Water Solubility (Generator Column Method)	Not required for end-use products.	
830.7950 (63-9)	Vapor Pressure	Not required for end-use products.	

PRIA 3 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)

September 2012

21 Day Screen Start Date: 6-9-16

Experts In-Processing Signature: B.B. Date 6-17-16 Fee Paid: Yes ☒

Division management contacted on issues No ☐ Yes ☐ Date _____

EPA Reg. Number: <u>5813-RRU</u>		EPA Receipt Date: <u>6-9-16</u>				
Items for Review				Yes	No	N/A*
1	Application Form (EPA Form 8570-1) signed & complete including package type			X		
2	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4)			X		
	a) All <u>inerts</u> , including fragrances, approved for the proposed uses (see Footnote A)	yes	no			
		X				
3	Certification with Respect to Citation of Data (EPA Form 8570-34) completed and signed (N/A if 100% repack)			X		
	Certificate and data matrix consistent			X		
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)	yes	no			
	If applicable, is there a letter of Authorization for exclusive use only.					
4	Formulator's Exemption Statement (EPA Form 8570-27) completed and signed (N/A if source is unregistered or applicant owns the technical)			X		
	Data Matrix (EPA Form 8570-35) both internal and external copies (PR 98-5) completed and signed (N/A if 100% repack)			X		
5	a) Selective Method (Fee category experts use)	yes	no			
	b) Cite-All (Fee category experts use)					
	c) Applicant owns all data (Fee category experts use)					
6	5 Copies of <u>Label</u> (<u>Electronic labels on CD</u> are encouraged and guidance is available)			X		
7	Is the data package consistent with <u>PR Notice 86-5</u>			X		
8	Notice of Filing included with petitions					X

9	If applicable for conventional applications, <u>reduced risk rationale</u>			
	<u>Required Data</u> and/or data waivers. See Footnote C.			
10	a) List study (or studies) not included with application			

Comments:

Documentation: PASS

- Confidential Statement of Formula was missing signature. Rec'd 06/24, see email.

Inerts: PASS

- Inerts approved for non-food use.

11-3: PASS

- MRID 499135

Status: PASS

- MS 06/24/16

* N/A – Not Applicable

Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses or have an application pending with the Agency. If an unapproved inert with no application pending with the Agency is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are **strongly encouraged** to verify that all inert ingredients have been approved for the application's uses or have an application pending with the Agency **even if a product is currently registered** by consulting the inert Web site and if the inert is not approved nor has an application pending with the Agency, to **obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient**. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at inertsbranch@epa.gov and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the Chief of Microbial Pesticides Branch.

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

Unapproved Inerts Identified on CSFs

All applications except conventional new products and PIPs

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Provide the required information necessary to identify an inert approval application that is pending with the Agency; or
3. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;
4. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

Conventional New Product Applications

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R300 or R301), it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.
3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.

Sheahin, Marc

From: Evelyn Lawson <Evelyn.Lawson@clorox.com>
Sent: Friday, June 24, 2016 10:17 AM
To: Sheahin, Marc
Subject: RE: Application for Reg.#5813-RRU - CONFIDENTIAL
Attachments: removed.txt; 5813_11X_Basic_CSF_20160602.pdf; 5813_11X_CSF_A01_20160602.pdf

Hi Marc,

Here are the CSFs; thank you for your email. I will send to Teresa Downs by CD (am I supposed to send her an email too?)

Thanks!
Evelyn

J. Evelyn Lawson
Federal Registration Specialist
The Clorox Company
925-368-9026

From: Sheahin, Marc [mailto:Sheahin.Marc@epa.gov]
Sent: Friday, June 24, 2016 6:30 AM
To: Evelyn Lawson
Subject: Application for Reg.#5813-RRU - CONFIDENTIAL

Dear Ms. Lawson,

My name is Marc Sheahin and I am a contractor with the EPA. I am contacting you in regards to your submission in support of CLB I (EPA Reg. Number: 5813-RRU). We have found a deficiency with the submission that will need to be addressed:

1. The Confidential Statement of Formula is missing a signature (basic and alternative).

Please send all necessary documents to this e-mail address by today (2:00EST). In addition, please send a copy via CD to Teresa Downs (downs.teresa@epa.gov). After today, please send directly to the PM. If you have any questions, please do not hesitate to contact me.

Best,
Marc Sheahin

Contractor, US EPA
2777 S. Crystal Drive, S-4811
Arlington, VA 22202

(703) 347-8686

Email: sheahin.marc@epa.gov

This e-mail (including any attachments) may contain information confidential to The Clorox Company and is intended only for the use of the intended recipient(s). If the reader of this message is not the intended recipient(s), you are notified that you have received this message in error and that any review, dissemination, distribution or copying of this message is strictly prohibited. If you have received this message in error, please delete this message and notify the sender immediately.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

June 16, 2016

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

OPP Decision Number: D-518440
EPA File Symbol or Registration Number: 5813-RRU
Product Name: CLB I
EPA Receipt Date: 09-Jun-2016
EPA Company Number: 5813
Company Name: CLOROX CO., THE

J. EVELYN LAWSON
CLOROX CO., THE
C/O PS&RC
PO Box 493
PLEASANTON, CA 94566-0803

SUBJECT: Receipt of Registration Application Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your application and certification of payment. If you submitted data with this application, the results of the PRN-2011-3 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: A540

NEW PRODUCT;NON-FAST TRACK;FIFRA SEC. 2(MM) USES;

No additional payment is due at this time.

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 308-8154.

Sincerely,

A handwritten signature in black ink, appearing to be "J. Evelyn Lawson".

Front End Processing Staff
Information Technology & Resources Management Division



PRISM Documentum

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Info Comments Progress

ISB In Processing : 5813-RRU 5987569 2016-06-10



Description: 5813-RRU 5987569 2016-06-10

From: Doc Admin

Received: 6/10/2016 9:28 AM

Workflow Instructions:

cd_12127_987569 : Comments

<u>Comment</u>	<u>Author</u>	<u>Date ▲</u>
PRIA	Daniels, Joseph	6/10/2016 9:28 AM
REQUESTED ACTION CODE = A540		
GRANTED ACTION CODE = A540		
Amount due = \$5,107		
Parent action = N		
Child action = N		
Other Remarks =		

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Receipt for Section 3



S: 987569

Milestone Email: CTCPSERC@Clorox.com

Regulatory Type: Product Registration - Section 3

Resubmission: ☐ Yes ☒ No

Print Letter

Application Type: New Registration

Fee For Service: ☒ Yes ☐ No

Enter More Information

Company: 5813 CLOROX CO., THE

V

Billable: ☒ Yes ☐ No

Tracking

Risk Manager: Antimicrobials Division, Risk Management Team 32

Product #: 5813-RRU Product Name: CLB I

Override#:

Me Too Section3: Me Too Product Name:

Application Date: 06-Jun-2016



OPP Rec'd Date: 09-Jun-2016



Front End Date: 10-Jun-2016



Risk Manager Send Date:



FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐

New Ingredient: ☐

Receipt Description:

Portal # 12127. Application for new registration.

New Ingredient

Request Date:

New Ingredient

Received Date:

Form A: ☐

Signature Date:

Form B: ☐

Signature Date:

Receipt Content	
Study	
CSF	

View/Edit



Receipt

Your payment is complete

Pay.gov Tracking ID: 25RDL32U

Agency Tracking ID: 75008504615

Form Name: Pesticide Registration Improvement Act - Prepayment

Application Name: PRIA Service Fees

Payment Information

Payment Type: Debit or credit card

Payment Amount: \$5,107.00

Transaction Date: 05/03/2016 10:09:21 AM EDT

Payment Date: 05/03/2016

Registration Number:

Company Name: The Clorox Company

Company Number: 5813

Action Code: A540

Account Information

Cardholder Name: Jim Wiersig

Card Type: Visa

Card Number: *****1062

Email Confirmation Receipt

Confirmation Receipts have been emailed to:

Evelyn.Lawson@Clorox.com

Jim.Wiersig@Clorox.com

CTCPSERC@Clorox.com



The Clorox Company

June 6, 2016



Mr. Demson Fuller, Product Manager 32
U.S. Environmental Protection Agency
Document Processing Desk (REGFEE)
Office of Pesticide Programs -7504P
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Re: CLB I, EPA Reg. No. 5813-*to be assigned*
OPP ELCLBI

Dear Mr. Fuller:

The Clorox Company is submitting a new product registration for CLB I, a dilutable sodium hypochlorite bleach under PRIA code A540, with a fee of \$5,107. CLB I is a hard surface disinfectant (bactericide, virucide, fungicide, tuberculocide, and sporicide (against *Clostridium difficile* spores) and as a sanitizer for use in the wash cycle on laundry, and on hard, nonporous food and nonfood contact surfaces in residential and institutional settings for use in homes, schools, hospitals and office buildings.

CLB I lists 6.05% sodium hypochlorite (NaOCl) as the active ingredient (AI) and is strongly related to Puma, EPA Reg. No. 5813-100, with the only main difference being the active ingredient concentration. Puma's NaOCl target level is 8.25%. CLB I's basic and alternate formulas have corresponding formulas in the Puma registration. That is, the Confidential Statement of Formula (CSF) for CLB I is the same as Puma's basic CSF with a different AI level. CLB I's alternate formula A01 is the same as Puma's alternate formula A19, except for a change in one of the ingredients' concentration (due only to raw material activity differences). (Note: the formulas are compared on pages 21 and 22 in Volume III "CLB I Supplemental Efficacy Discussion". Because of the formula similarities, CLB I can cite most of Puma's data set. The efficacy discussion volume in this submission carefully details how CLB I's "dose/concentration" combination equals or exceeds Puma's "dose/concentration" combination for every cited study. Clorox also submitted a similar efficacy discussion volume for CLB; EPA File Symbol 5813-RRR; however, we wanted to submit one for this registration as well because we wanted the efficacy reviewer to understand our strategy for citing Puma's data. This approach avoids costly duplicative efficacy testing as well as unnecessary micro-efficacy reviews at EPA.

CLB I is also similar to CLB, EPA File Symbol 5813-RRR, with the only difference being the NaOCl concentration. The sodium hypochlorite concentrations for CLB and CLB I are 6% and 6.05% respectively. In addition, these two registrations have the identical upper certified limit and lower certified limit. We can use the same efficacy studies to cite for either registration. Finally, we also compare the CLB and CLB I formulas on page 23 of Volume III "CLB I Supplemental Efficacy Discussion."

This submission also features a streamlined approach to submitting CSFs, an approach we used with our CLB submission; however, we have added more information on the page "Other AIs". This approach minimizes ongoing maintenance and Agency review of multiple alternate formulas. A large number of alternate formulas are typically created for our sodium hypochlorite bleach registrations solely for the purpose of accommodating a wide range of active ingredient (AI) suppliers, each of which supplies the same exact AI, but with a slightly different concentration. We are only submitting two CSFs (instead of 14 CSFs). All the information that would normally be on additional CSFs, with different sodium hypochlorite AI concentrations is now on pages 2 and 3 of the 2 submitted CSFs. In addition, the 2 submitted CSFs and the additional formulas are listed in a tabular manner in the product chemistry volume.

Finally, we are submitting 24 efficacy studies with this submission; this number includes the efficacy discussion volume. We will be citing these submitted efficacy studies for CLB in the future.

The enclosed transmittal lists all administrative documents submitted in support of this product.

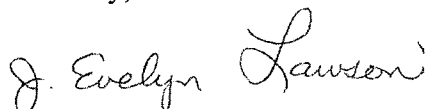
We submit the following administrative documents:

- Form 8570-1, Application for Pesticide Registration (ELCLBI)
- Pay.gov PRIA pre-payment with pay.gov Tracking ID 25RDL32U
- Clean label (RC206010)
- Form 8570-4, Confidential Statement of Formula – Basic
- Form 8570-4, Confidential Statement of Formula – A01
- Form 8570-27, Formulator's Exemption Statement (2 pages)
- Child-Resistant Packaging Statement
- Form 8570-34, Certification with Respect to Citation of Data
- Form 8570-35, Data Matrix (Agency Internal Use Copy)
- Form 8570-35, Data Matrix (Public File Copy)

We request a copy of both the efficacy and the product chemistry DER to be included with the Agency's response to this letter.

Thank you for reviewing the enclosed submission. If you have any questions, please contact me at 925-368-9026 or Julie Timberman at 925-368-9043.

Sincerely,



J. Evelyn Lawson
Federal Registration Specialist
The Clorox Company
CTCPSERC@Clorox.com

TRANSMITTAL DOCUMENT

1. Name and address of submitter

The Clorox Company
c/o PS&RC
P.O. Box 493
Pleasanton, CA 94566-0803
Attention: J. Evelyn Lawson

2. Regulatory action in support of which this package is submitted

CLB I, EPA Reg. No. 5813-*to be assigned*
New product registration

3. Transmittal date

June 6, 2016

4. Administrative Materials

- A) Cover letter
- B) Form 8570-1, Application for Pesticide Registration (ELCLBI)
- C) Emerging pathogen cover letter
- D) PRIA pre-payment with tracking ID 25RDL32U
- E) Label - RC206010
- F) Confidential Statements of Formula (CSFs): Basic and A01 dated 6/2/2016
- G) Formulator's Exemption Statement
- H) Child-Resistant Packaging Statement
- I) Draft efficacy Data Evaluation Record (DER)
- J) Form 8570-34, Certification with Respect to Citation of Data
- L) Form 8570-35, Data Matrix (Agency Internal Use Copy)
- M) Form 8570-35, Data Matrix (Public File Copy)

5. Submitted studies

Vol. I - Product Chemistry - CLB I;
EPA Reg. No. 5813-*to be assigned*;
Series 830

MRID assigned: 49913501

Vol. II - Product Chemistry Waivers - CLB I;
EPA Reg. No. 5813-*to be assigned*;
Series 830

MRID assigned: 49913502

Vol. III - CLB I Supplemental Efficacy
Discussion; EPA Reg. No. 5813-*to be assigned*

MRID assigned: 49913503

Vol. IV - AOAC Available Chlorine in Disinfectants; <i>Salmonella enterica</i> subspecies <i>enterica</i> serovar Typhi (ATCC 6539); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2300; A19863	MRID assigned: <u>49913504</u>
Vol. V - AOAC Available Chlorine in Disinfectants; <i>Salmonella enterica</i> subspecies <i>enterica</i> serovar Typhi (ATCC 6539); CLB, FIS2015.0212 and CLB I, FIS2015.0320; 810.2300; A20126	MRID assigned: <u>49913505</u>
Vol. VI - AOAC Available Chlorine in Disinfectants; <i>Yersinia enterocolitica</i> (ATCC 23715); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2300; A20439	MRID assigned: <u>49913506</u>
Vol. VII - AOAC Use-Dilution Method; <i>Bordetella pertussis</i> (ATCC 12743); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A20000	MRID assigned: <u>49913507</u>
Vol. VIII - AOAC Use-Dilution Method; <i>Campylobacter jejuni</i> ; CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A19996	MRID assigned: <u>49913508</u>
Vol. IX - AOAC Use-Dilution Method; Carbapenem Resistant <i>Escherichia coli</i> (CDC 81371); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A19995	MRID assigned: <u>49913509</u>
Vol. X - AOAC Use-Dilution Method; <i>Enterococcus faecalis</i> (ATCC 29212); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A19999	MRID assigned: <u>49913510</u>
Vol. XI - AOAC Use-Dilution Method; <i>Klebsiella oxytoca</i> (ATCC 13182); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A20216	MRID assigned: <u>49913511</u>
Vol. XII - AOAC Use-Dilution Method; <i>Listeria monocytogenes</i> (ATCC 19117); CLB, FIS2015.0210 and CLB I, FIS2015.0315; A20001	MRID assigned: <u>49913512</u>
Vol. XIII - AOAC Use-Dilution Method; Multi-drug Resistant (MDR) <i>Enterococcus faecium</i> (ATCC 51559); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A19997	MRID assigned: <u>49913513</u>

Vol. XIV - AOAC Use-Dilution Method; New Delhi metallo-beta-lactamase 1 (NDM-1) producing *Enterobacter cloacae* (CDC 1000654) CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A20007

MRID assigned: 49913514

Vol. XV - AOAC Use-Dilution Method; New Delhi metallo-beta-lactamase 1 (NDM-1) producing *Escherichia coli* (CDC 1001728); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A20002

MRID assigned: 49913515

Vol. XVI - AOAC Use-Dilution Method; Penicillin Resistant *Streptococcus pneumoniae* (ATCC 700677); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A19720

MRID assigned: 49913516

Vol. XVII - AOAC Use-Dilution Method; *Proteus mirabilis* (ATCC 9240); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A19721

MRID assigned: 49913517

Vol. XVIII - AOAC Use-Dilution Method; *Serratia marcescens* (ATCC 14756); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A20215

MRID assigned: 49913518

Vol. XIX - AOAC Use-Dilution Method; *Staphylococcus epidermidis* - Coagulase Negative (CoNS) (ATCC 12228); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A19690

MRID assigned: 49913519

Vol. XX - Virucidal Hard-Surface Efficacy Test; SARS-Associated Coronavirus (SARS CoV); Strain: CDC Strain 200300592; CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200 (f) (1); 320-607

MRID assigned: 49913520

Vol. XXI - AOAC Use-Dilution Method; *Vibrio cholerae* (ATCC 11623); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A20297

MRID assigned: 49913521

Vol. XXII - AOAC Use-Dilution Method; *Yersinia enterocolitica* (ATCC 23715); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200; A20214

MRID assigned: 49913522

Vol. XXIII - Virucidal Hard-Surface Efficacy Test Hantavirus (Prospect Hill Virus); CLB, FIS2015.0210 and CLB I, FIS2015.0315; 810.2200 (f) (1); A19999

MRID assigned: 49913523

Vol. XXIV - AOAC Use-Dilution Method;
Haemophilus influenzae (ATCC 10211); CLB,
FIS2015.0210 and CLB I, FIS2015.0315; 810.2200;
A19896

MRID assigned: 49913524


Vol. XXV - Virucidal Efficacy of a Disinfectant
for Use on Inanimate Environmental Surfaces;
Herpes simplex virus type 1; CLB, FIS2015.0210
and CLB I, FIS2015.0315; 810.2200; A20237

MRID assigned: 49913525

Vol. XXVI - Virucidal Efficacy of a Disinfectant
for Use on Inanimate Environmental Surfaces;
Newcastle disease virus; CLB, FIS2015.0210
and CLB I, FIS2015.0315; 810.2200; A20246

MRID assigned: 49913526

Company Official: J. Evelyn Lawson
Federal Registration Specialist



Signature

Company Name: The Clorox Company
Company Contact: J. Evelyn Lawson
Phone: (925) 368-9026
Fax: (925) 368-8668
E-mail: CTCPSERC@Clorox.com

A540 - New end use product.

- Must submit or reference Group A and B product chemistry, toxicity, and/or efficacy data for each proposed product.
- Data waivers may be requested. Chemistry data on the TGA I in addition to the EP is required if an unregistered source is used.

End Use (EP) or Manufacturing Use (MP) product or Technical Grade of the Active Ingredient (TGA I)

Guideline No.	Group A: Product Chemistry Data Study Title	EP Data Submitted	MP Data Submitted	TGA I Data Submitted
830.1550	Product Identity & Composition	✓		
830.1600	Description of materials used to produce the product	✓		
830.1650	Description of formulation process	✓		
830.1670	Discussion on the formation of impurities	✓		
830.1700	Preliminary analysis	✓		
830.1750	Certified limits (158.345)	✓		
830.1800	Enforcement analytical method	✓		

Guideline No.	Group B: Product Chemistry Data Study Title	EP Data Submitted	MP Data Submitted	TGA I Data Submitted
830.6302	Color	✓		
830.6303	Physical State	✓		
830.6304	Odor	✓		
830.6313	Stability to normal and elevated temperatures metal and metal ions			
830.6314	Oxidation/Reduction (Chemical incompatibility)	✓		
830.6315	Flammability	✓		
830.6316	Explosibility	✓		
830.6317	Storage stability*	✓		
830.6319	Miscibility	✓		
830.6320	Corrosion Characteristics*	✓		
830.6321	Dielectric Breakdown Voltage	✓		
830.7000	pH	✓		
830.7050	UV/ Visible Absorption			
830.7100	Viscosity	✓		
830.7200	Melting Point			
830.7220	Boiling Point			
830.7300	Density	✓		
830.7370	Dissociation Constant			
830.7550	Partition Coefficient			
830.7840	Water Solubility			
830.7950	Vapor Pressure			

Grayed out = data not required

*May not be included with initial application

A540 – Acute Toxicity Requirements

New products must either:

- 1) supply the product specific acute toxicity 6 pack data (listed below),
- 2) provide a bridging rationale document or waiver request or,
- 3) use the cite all method of data compensation, if applicable. The bridging document directs OPP to use a currently registered set of 6 acute toxicity data and label; instead of submitting product specific data.

Guideline No.	Acute toxicity (6 pack) Study Title	Cite All	Selective	Waiver Request	Bridging Rational
830.1100	Acute Oral (LD50)		✓		
830.1200	Acute Dermal (LD50)		✓		
830.1300	Acute Inhalation (LC50)		✓		
830.2400	Acute Eye Irritation		✓		
830.2500	Acute Dermal Irritation		✓		
830.2600	Dermal Sensitization		✓		

